

FIG. 1
(Prior Art)

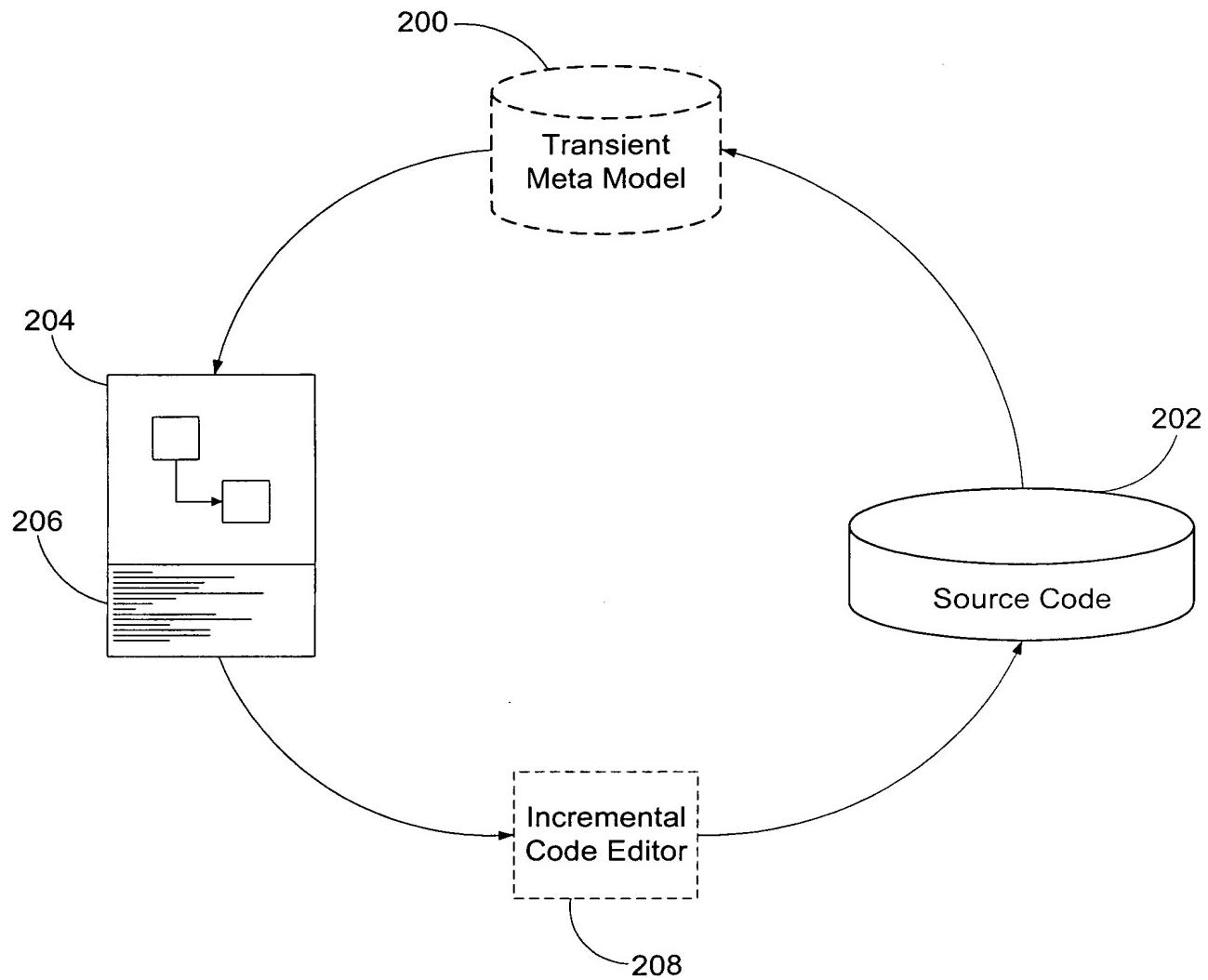


FIG. 2

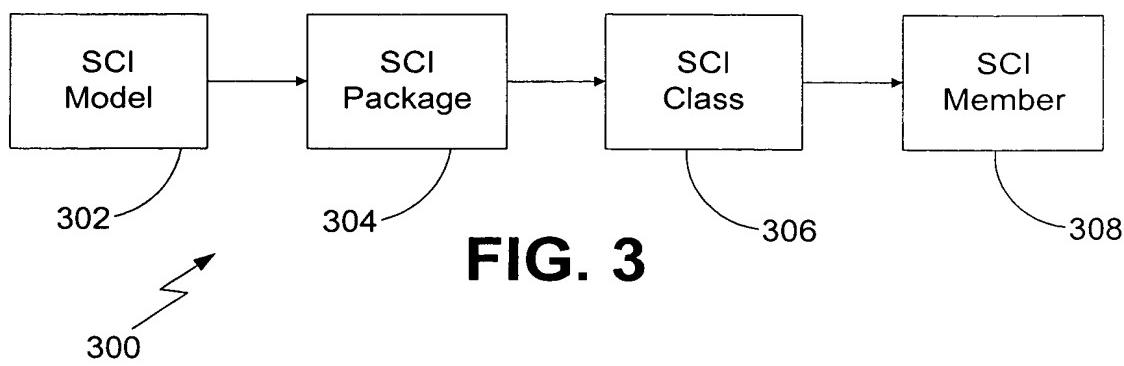


FIG. 3

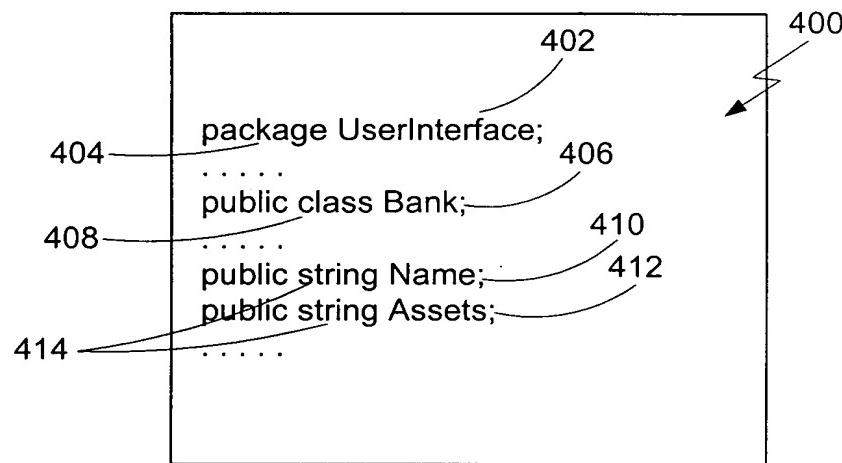


FIG. 4

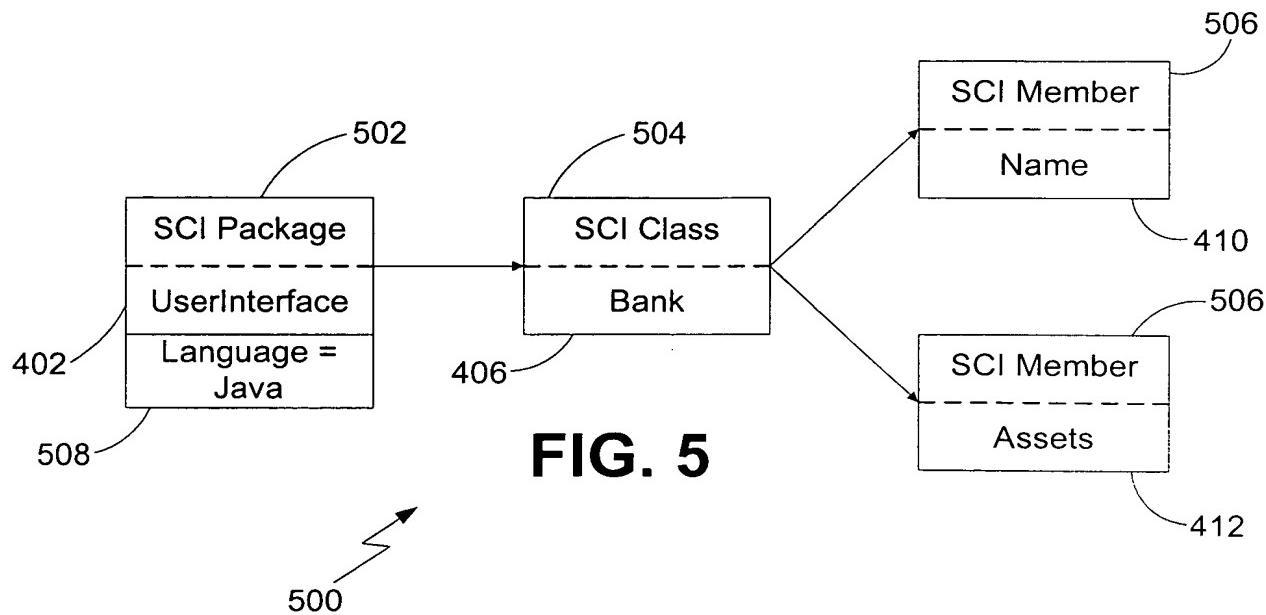


FIG. 5

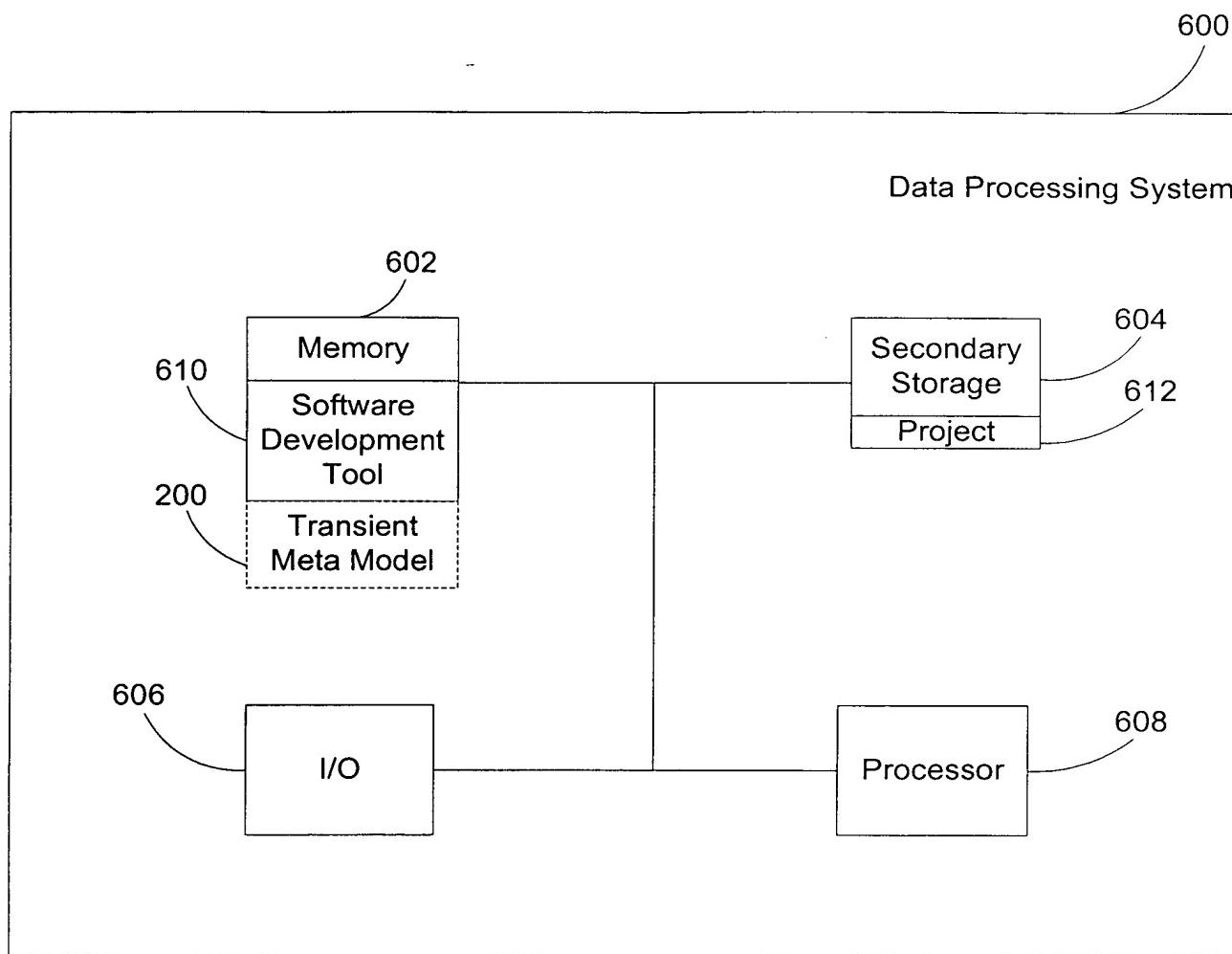


FIG. 6

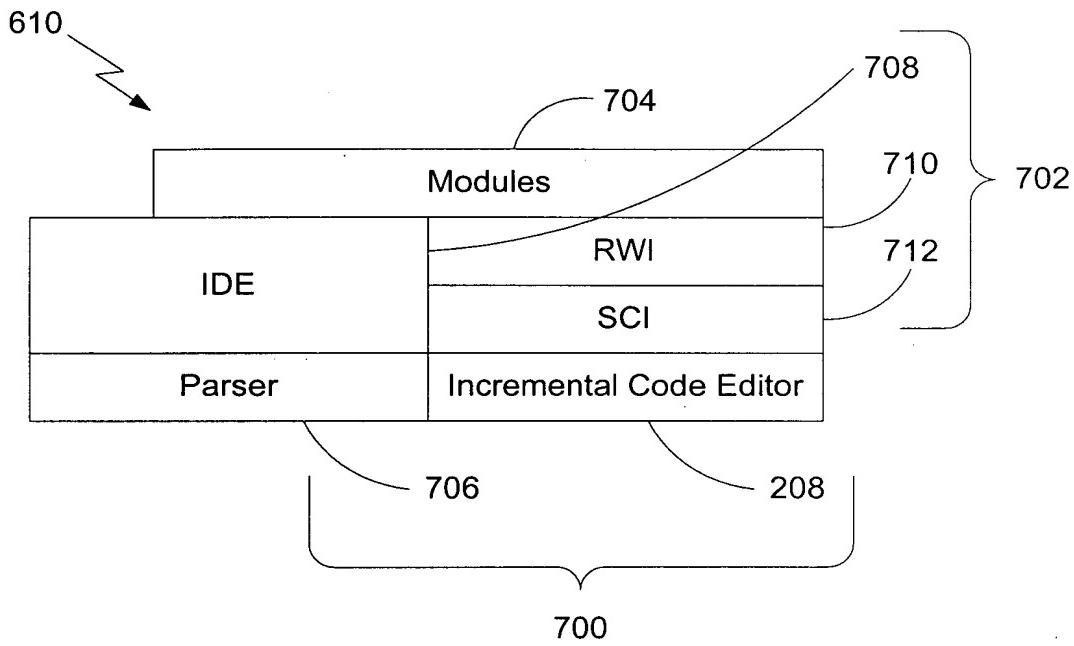


FIG. 7

TODAY'S DATE

QA Audit

Title	Abbreviation	Chosen	Severity:
<input type="checkbox"/> Coding Style		<input checked="" type="checkbox"/>	High
Access Of Static Members Through Objects	AOSMTO	<input checked="" type="checkbox"/>	800
Assignment To Formal Parameters	ATFP	<input checked="" type="checkbox"/>	802
Complex Assignment	CA	<input checked="" type="checkbox"/>	
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>	
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>	
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>	
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>	
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>	
Use 'this' Explicitly To Access Class Members	UTETACM	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Critical Errors		<input checked="" type="checkbox"/>	
Avoid Hiding Inherited Attributes	AHIA	<input checked="" type="checkbox"/>	
Avoid Hiding Inherited Static Methods	AHISM	<input checked="" type="checkbox"/>	
Command Query Separation	CQS	<input checked="" type="checkbox"/>	
Hiding Of Names	HON	<input checked="" type="checkbox"/>	
Inaccessible Constructor Or Method Matches	ICCOMM	<input checked="" type="checkbox"/>	
Multiple Visible Declarations With Same Name	MVDVSN	<input checked="" type="checkbox"/>	
Overriding a Non-Abstract Method With an Ab...	ONAMVAM	<input checked="" type="checkbox"/>	
Overriding a Private Method	OPM	<input checked="" type="checkbox"/>	
<input type="button" value="Select all"/> <input type="button" value="Unselect all"/> <input type="button" value="Set defaults"/> <input type="button" value="Save set As..."/> <input type="button" value="Load set..."/>			

AOSMTO - Access Of Static Members Through Objects

Static members should be referenced through class names rather than through objects.

804

FIG. 8A

806

QA Audit

Title	Abbreviation	Chosen	Severity:
Complex Assignment	CA	<input checked="" type="checkbox"/>	
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>	
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>	
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>	
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>	
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>	

Select all **Unselect all** **Set defaults** **Save set As...** **Load set...**

CA - Complex Assignment

808

Checks for the occurrence of multiple assignments and assignments to variables within the same expression. Too complex assignments should be avoided since they decrease program readability.

Wrong

```
// compound assignment
i *= j++;
k = j = 10;
l = j += 15;
// nested assignment
i = j++ + 20;
i = (j = 25) + 30;
```

810

Tip: Break statement into several ones.

Start **Cancel** **Help**

FIG. 8B

806

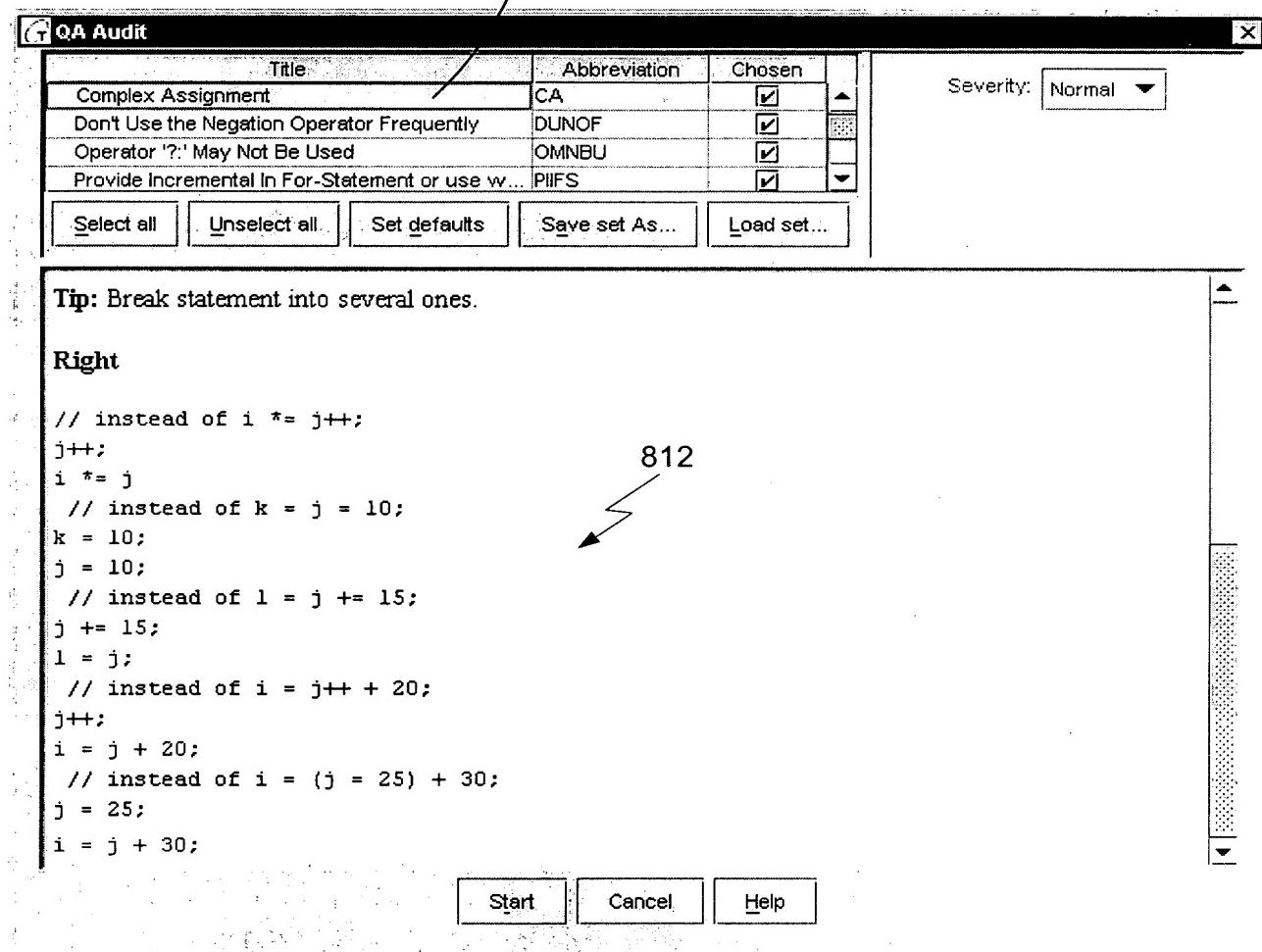


FIG. 8C

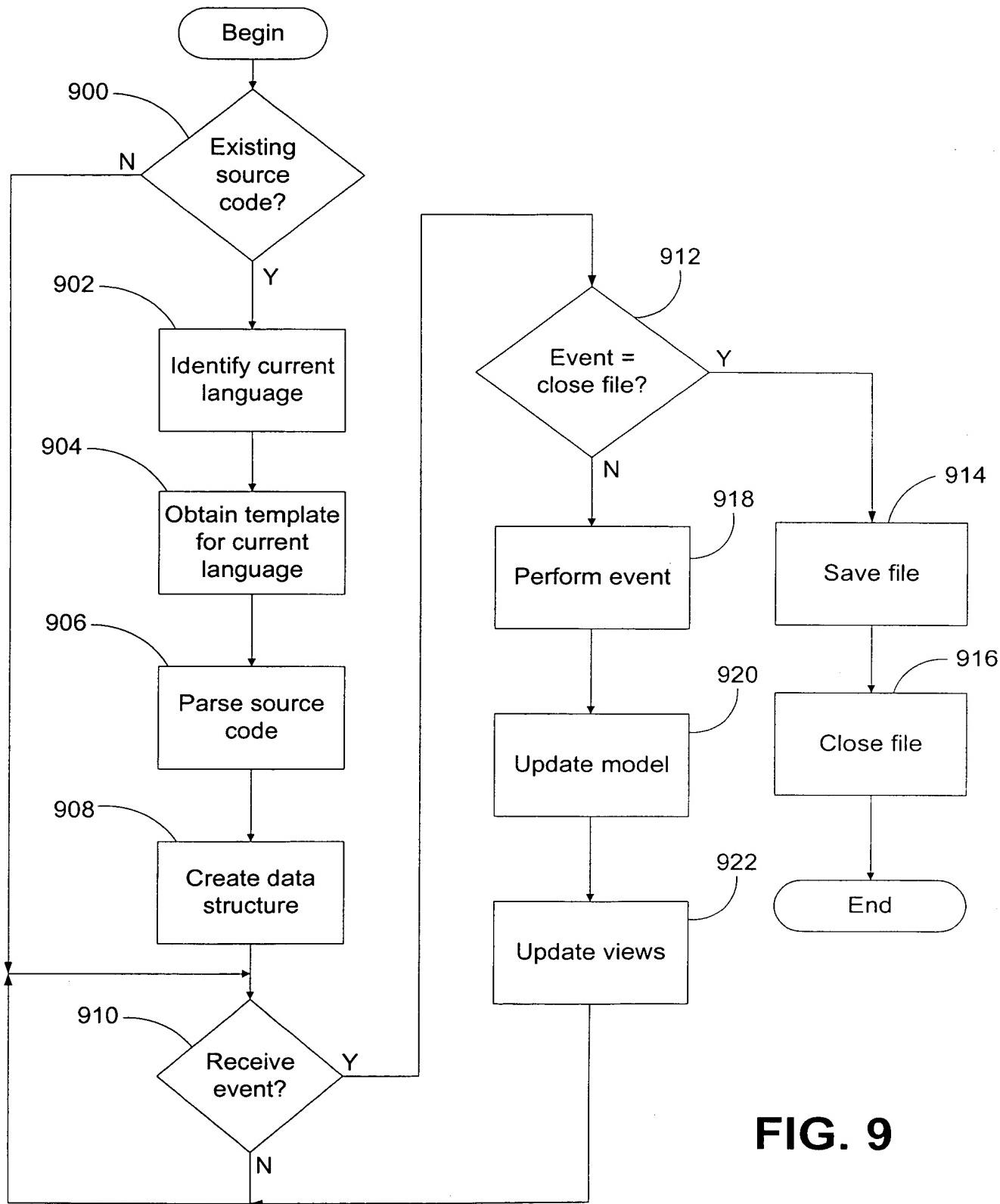


FIG. 9

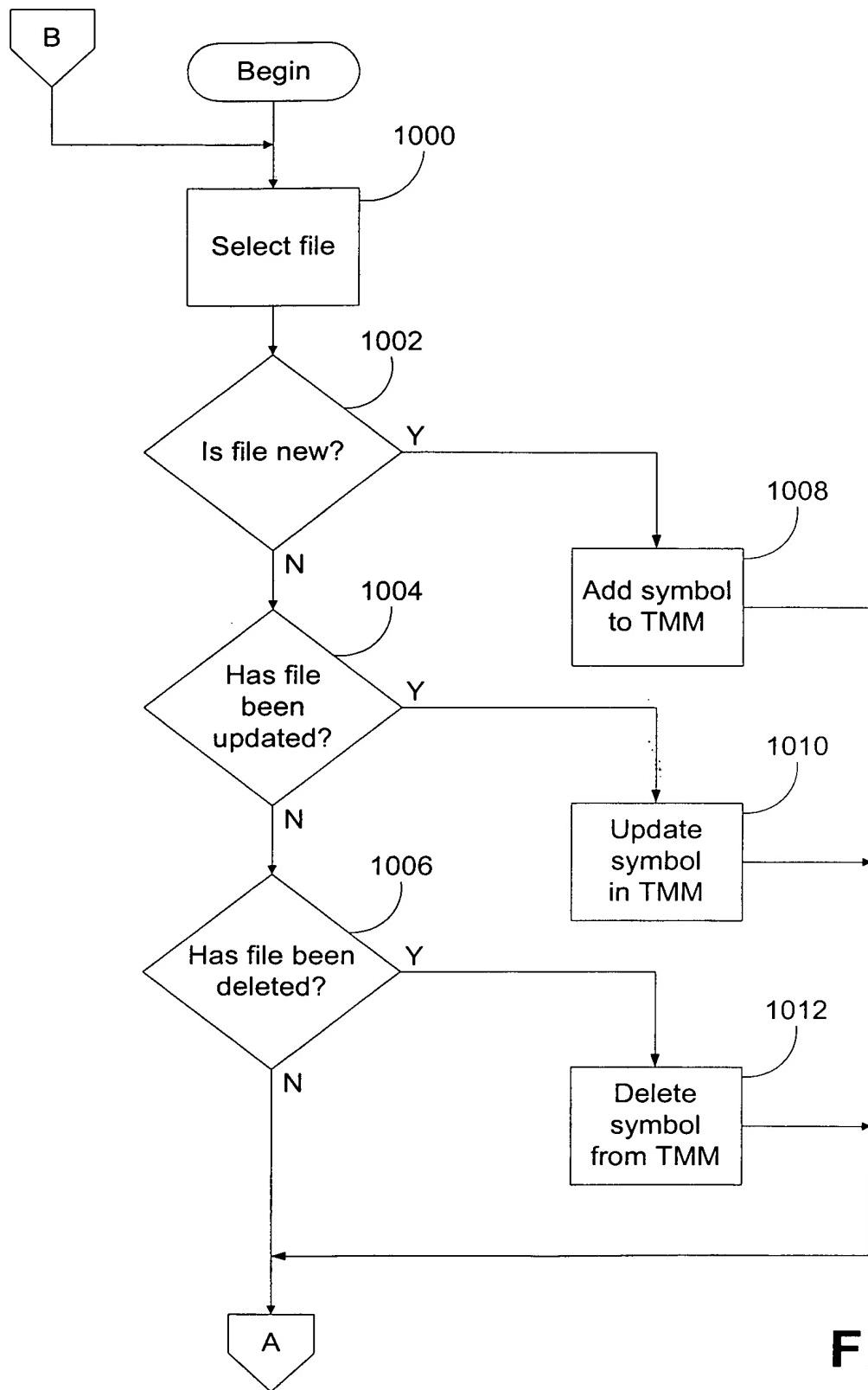


FIG. 10A

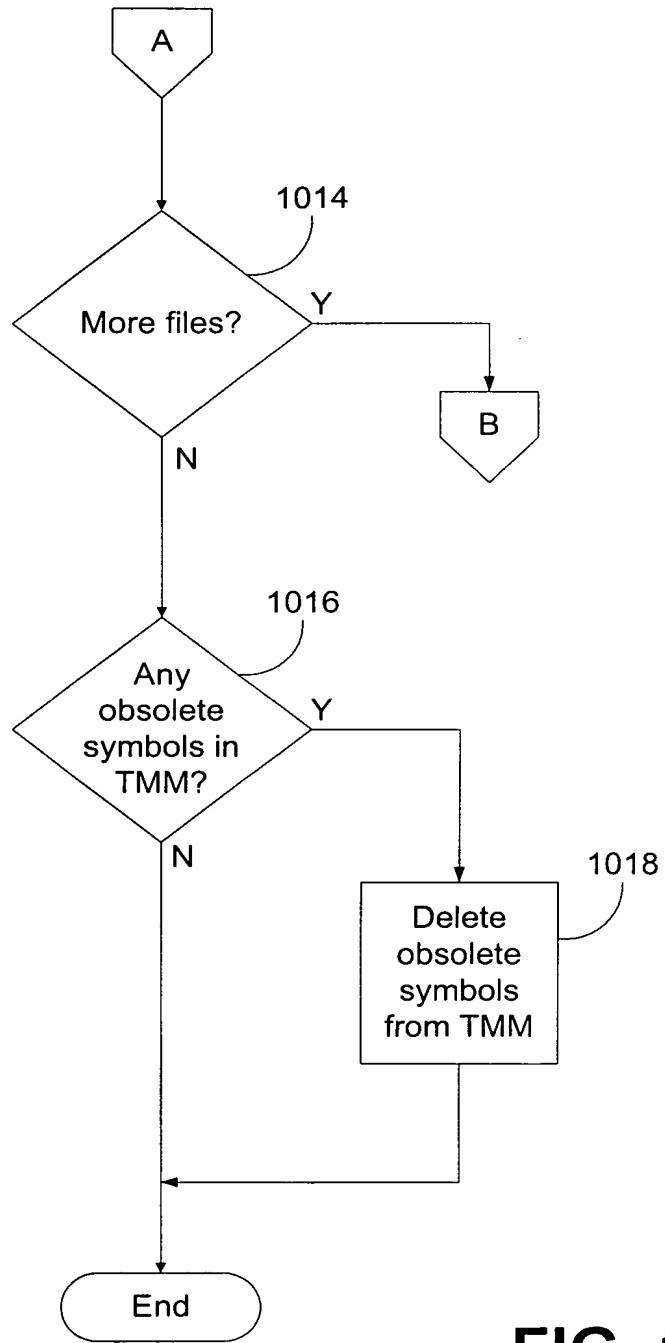


FIG. 10B

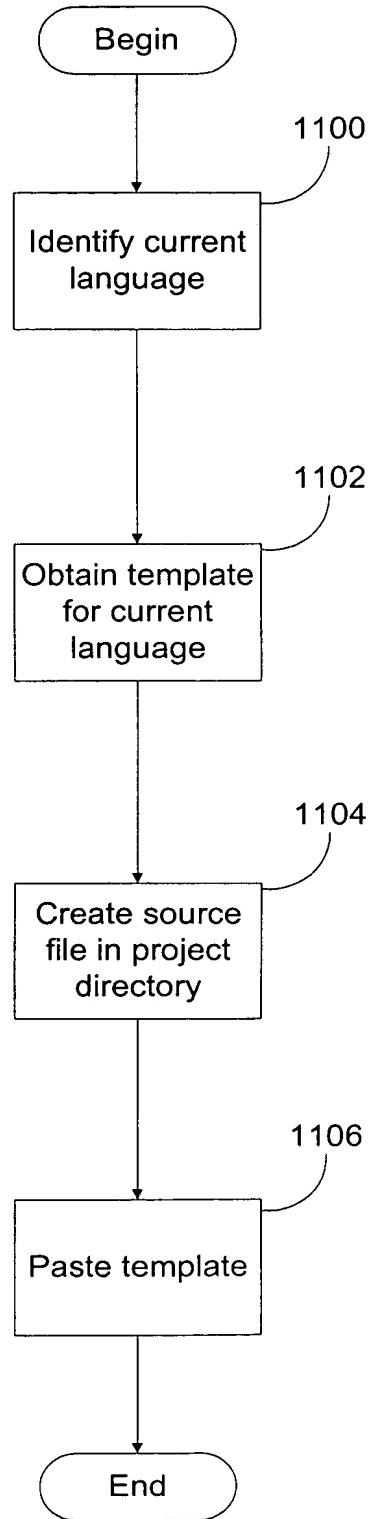


FIG. 11

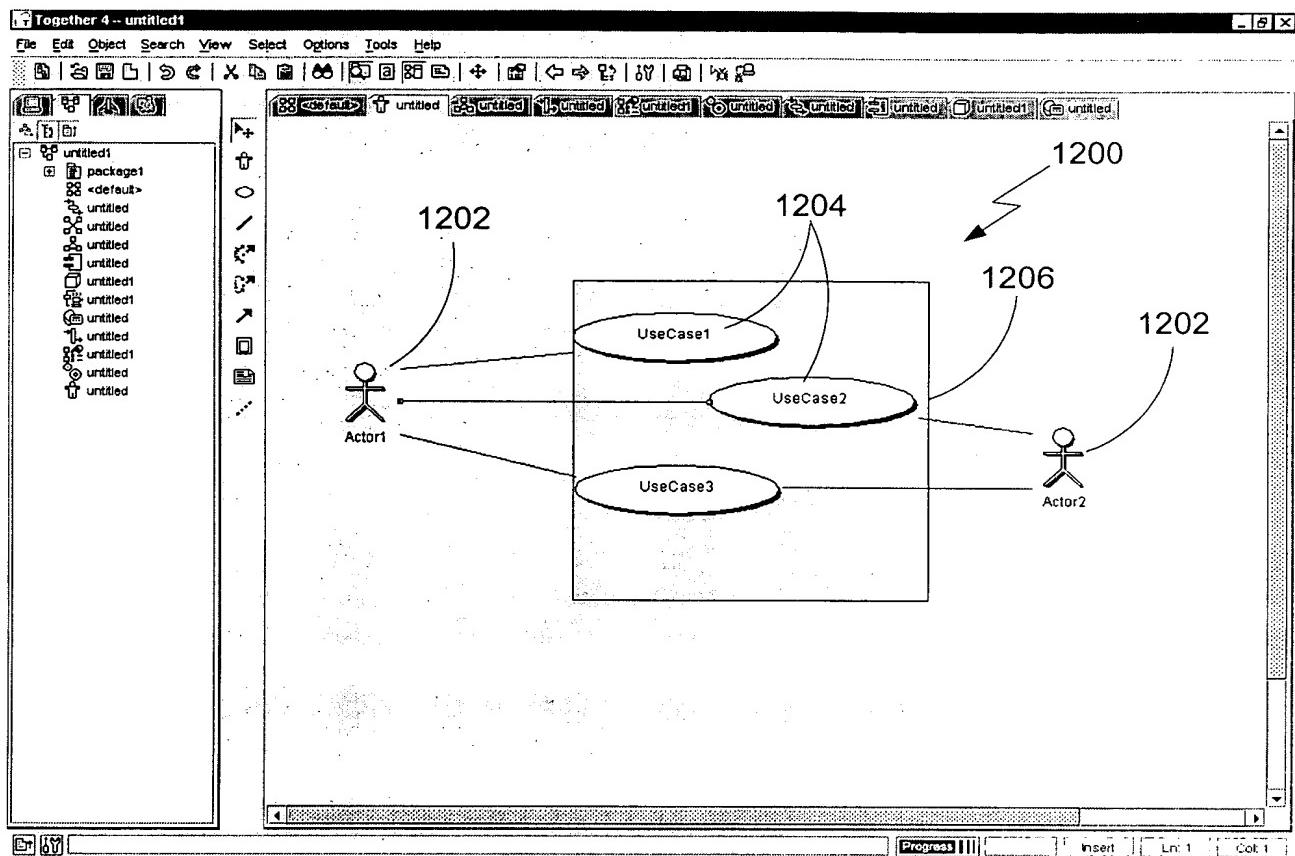


FIG. 12

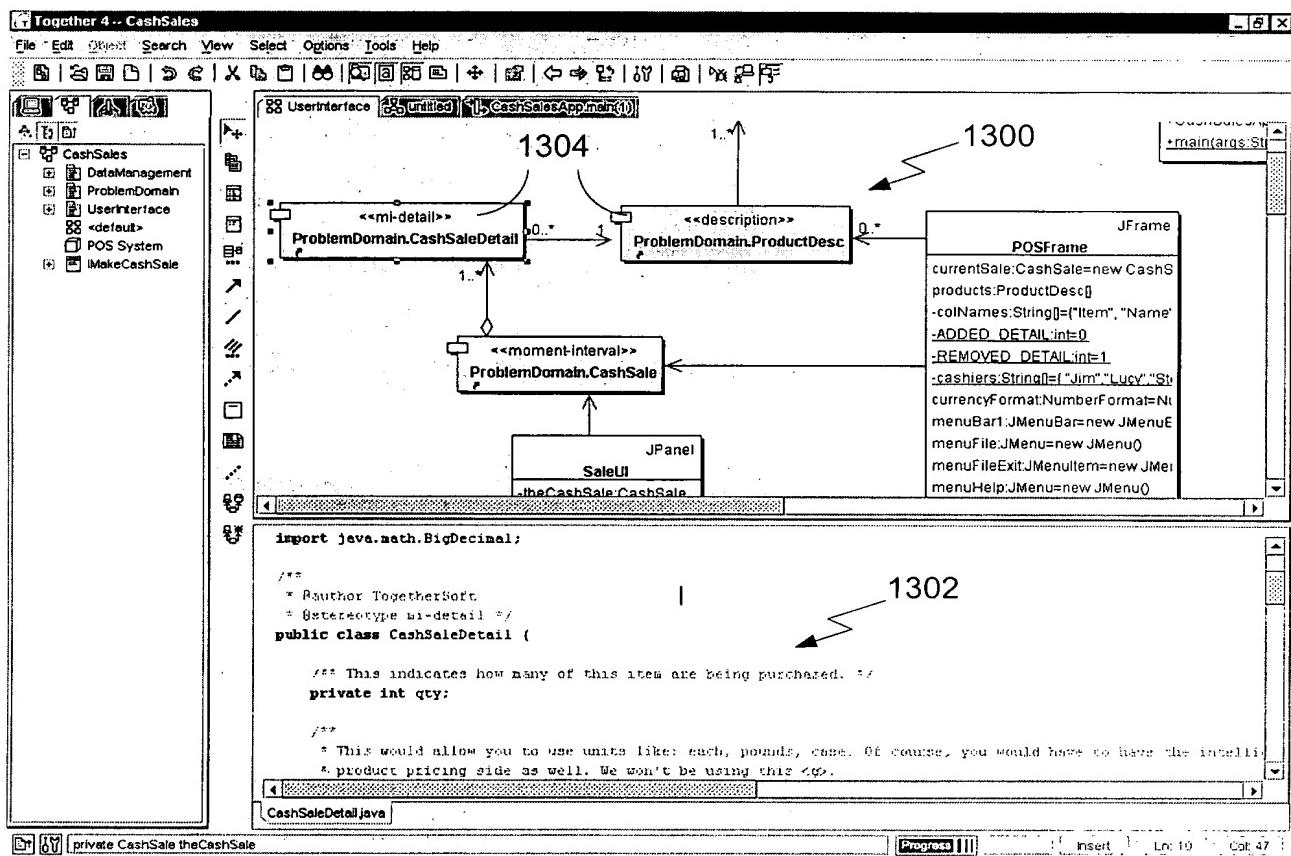


FIG. 13

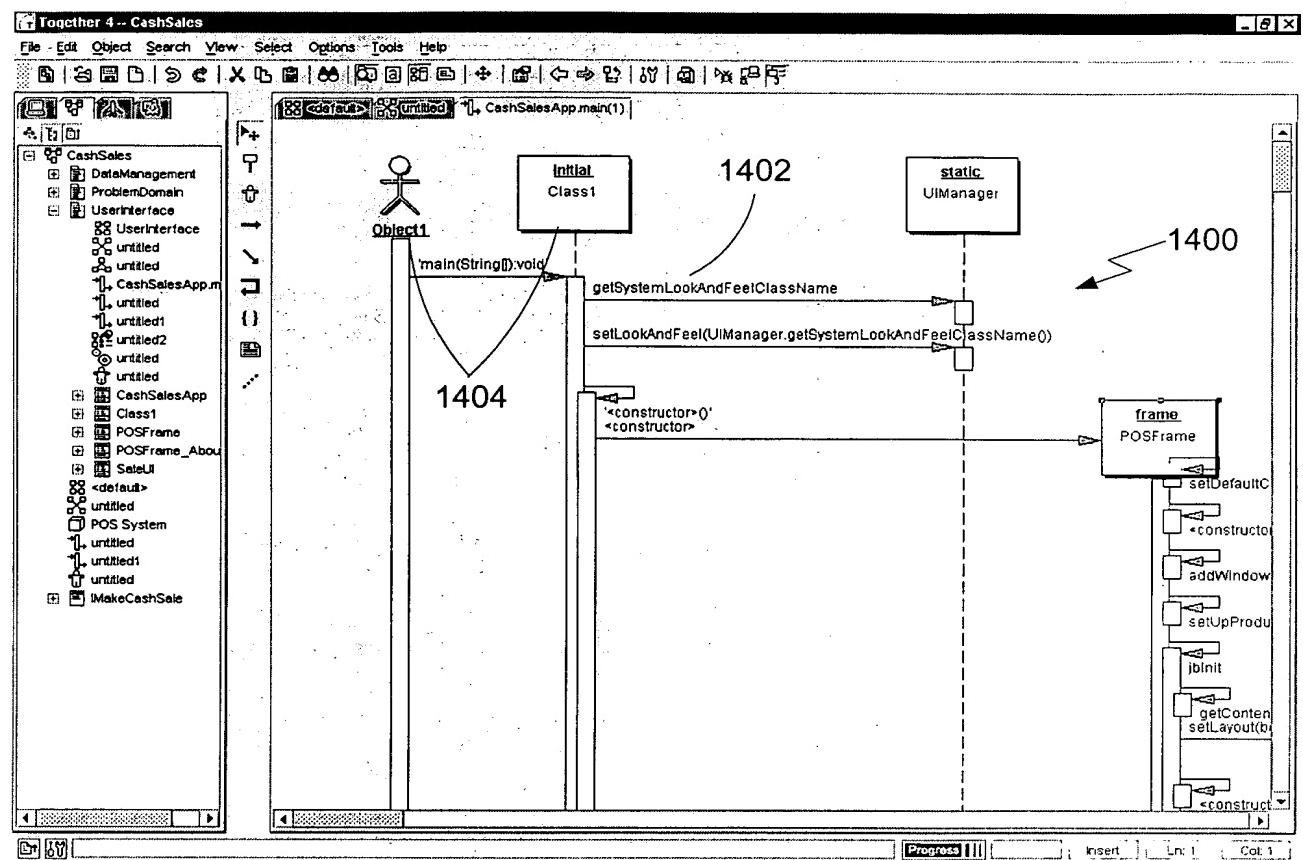


FIG. 14

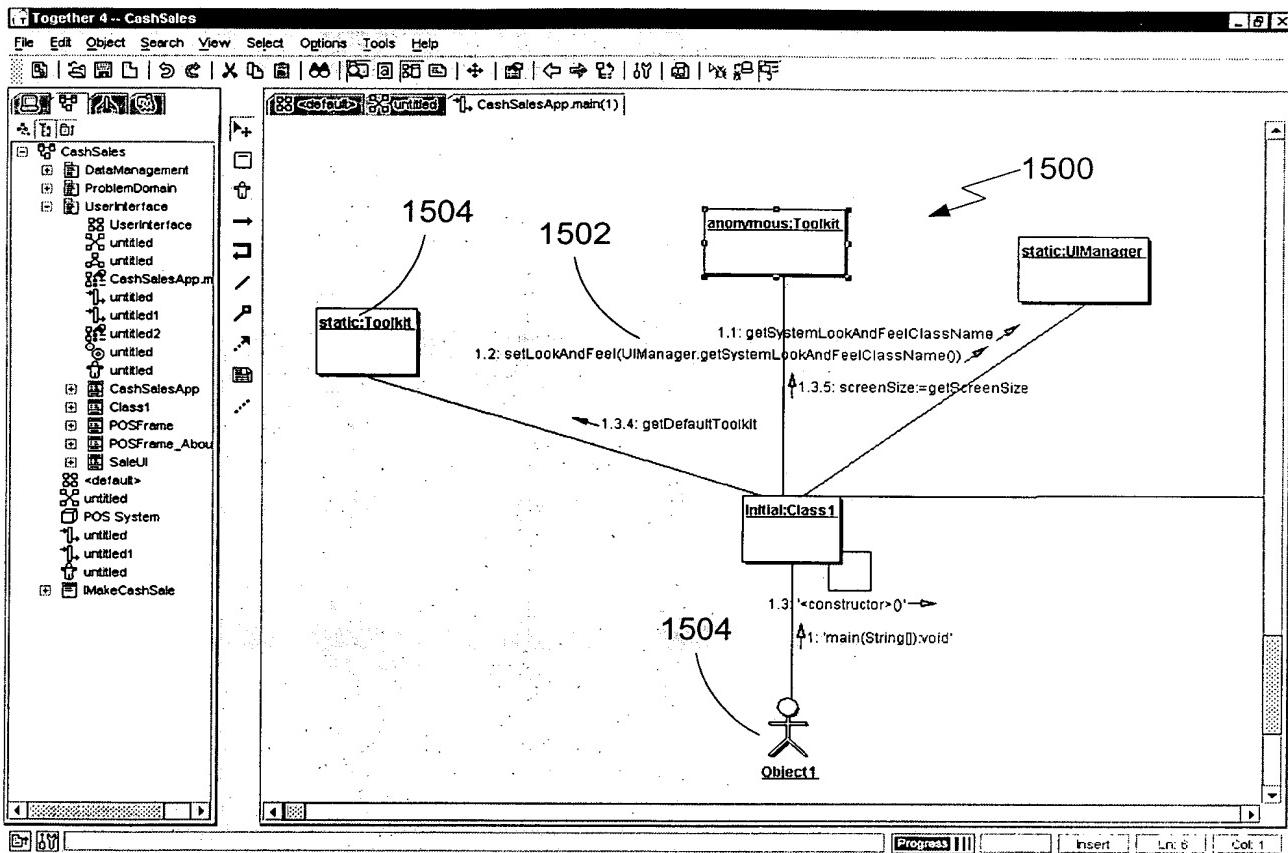


FIG. 15

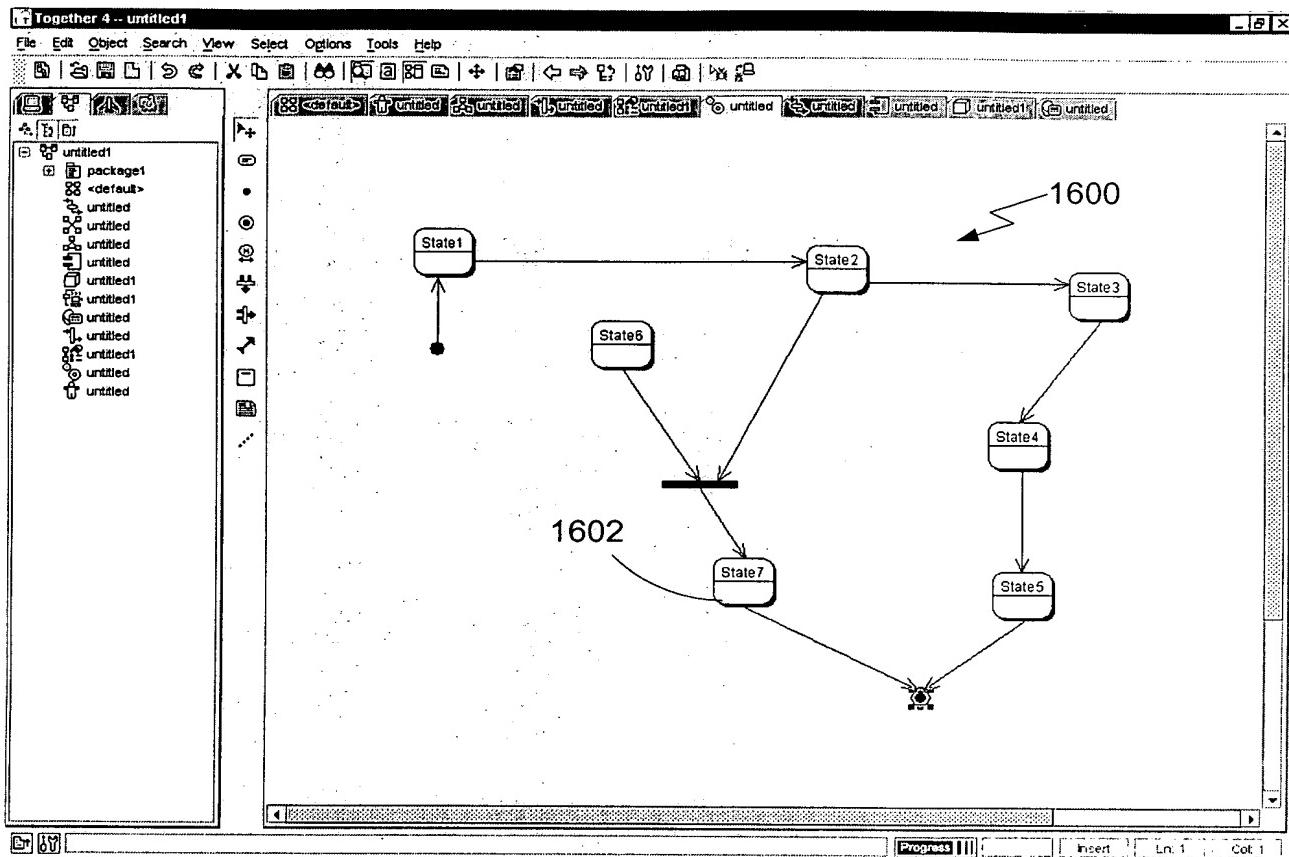


FIG. 16

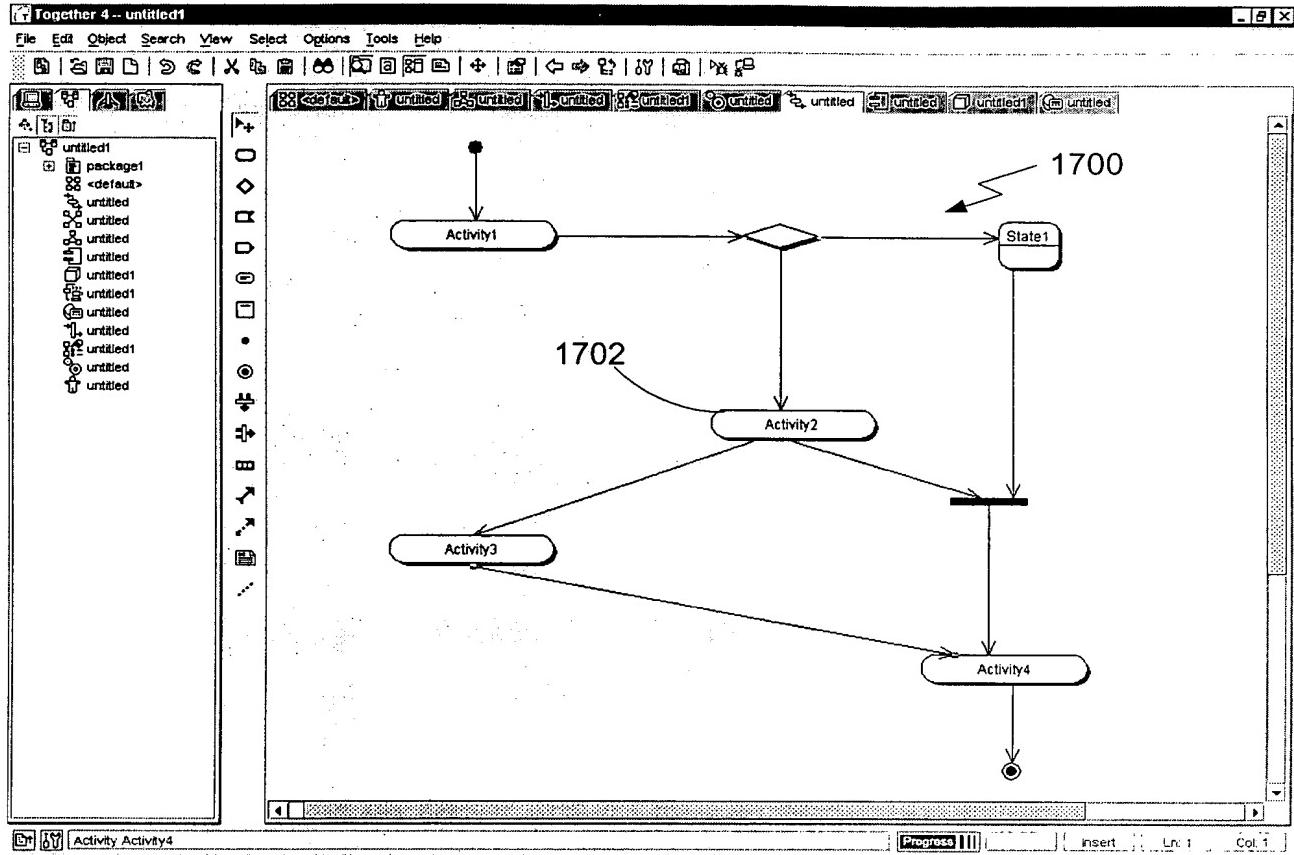


FIG. 17

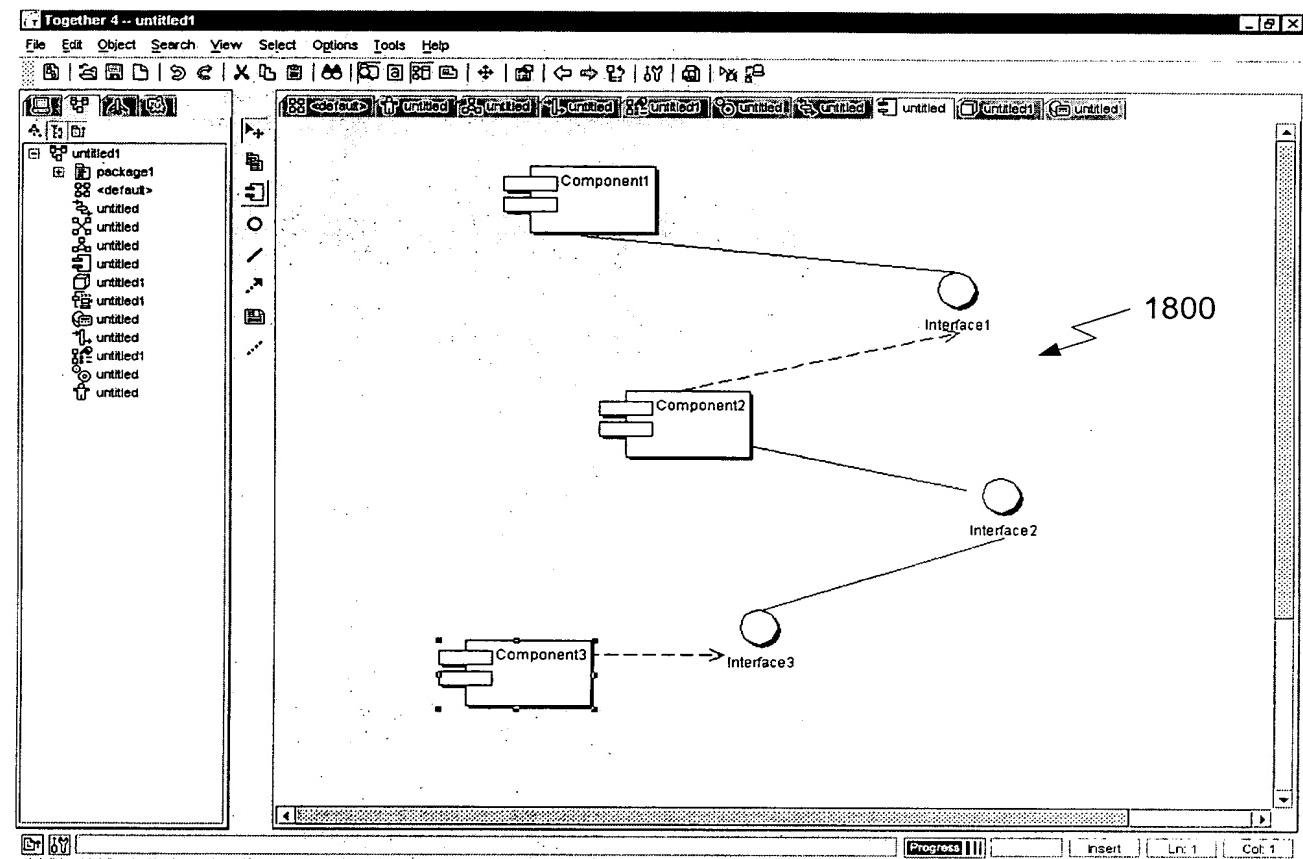


FIG. 18

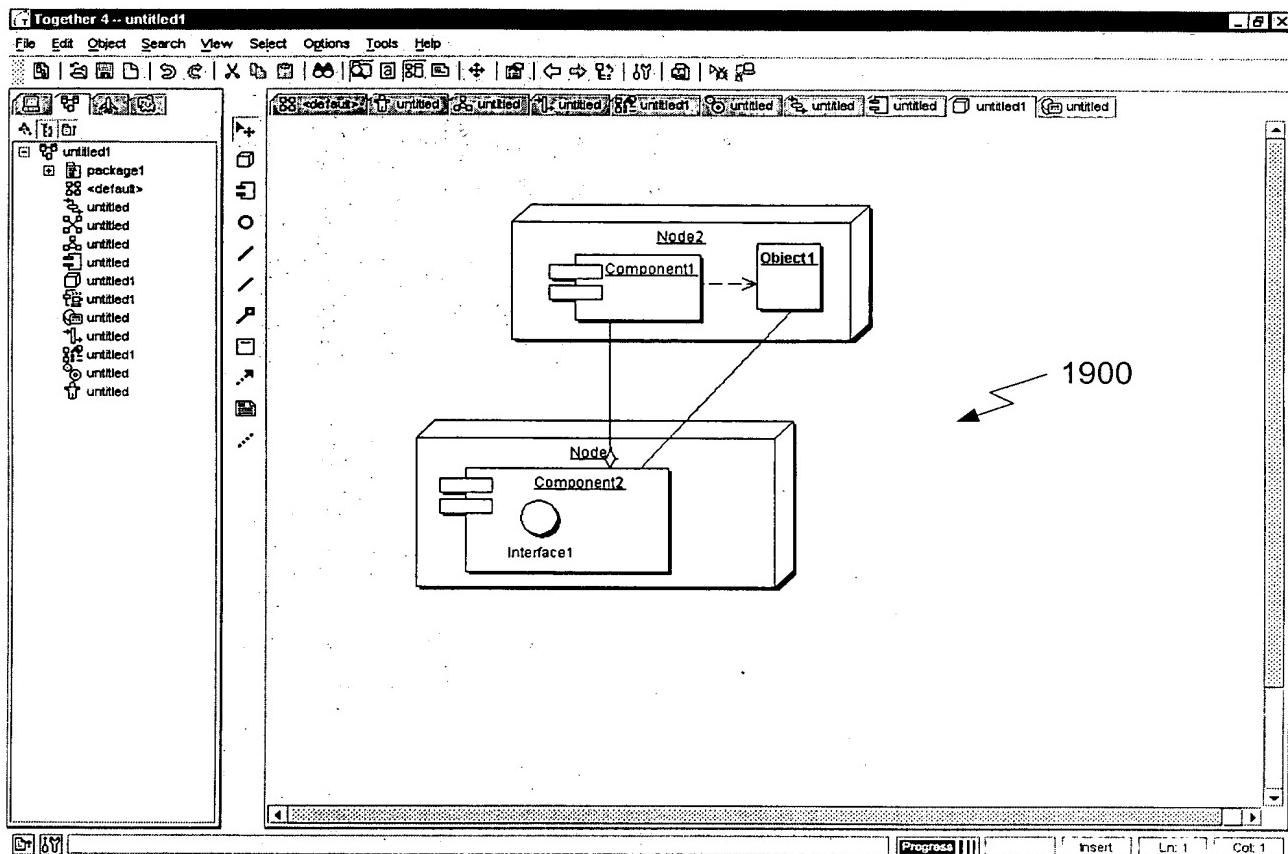


FIG. 19

FIG. 20

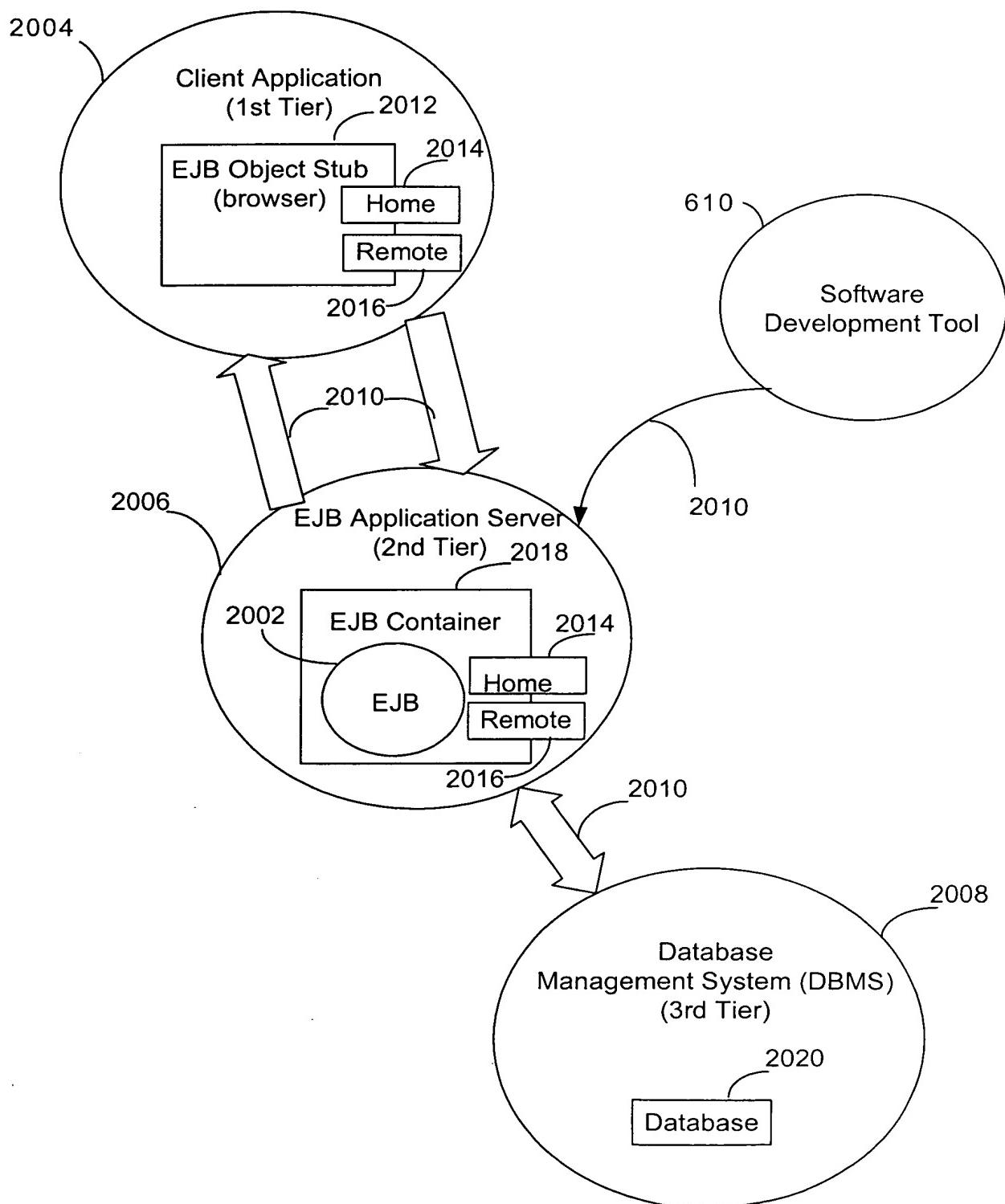


FIG. 21

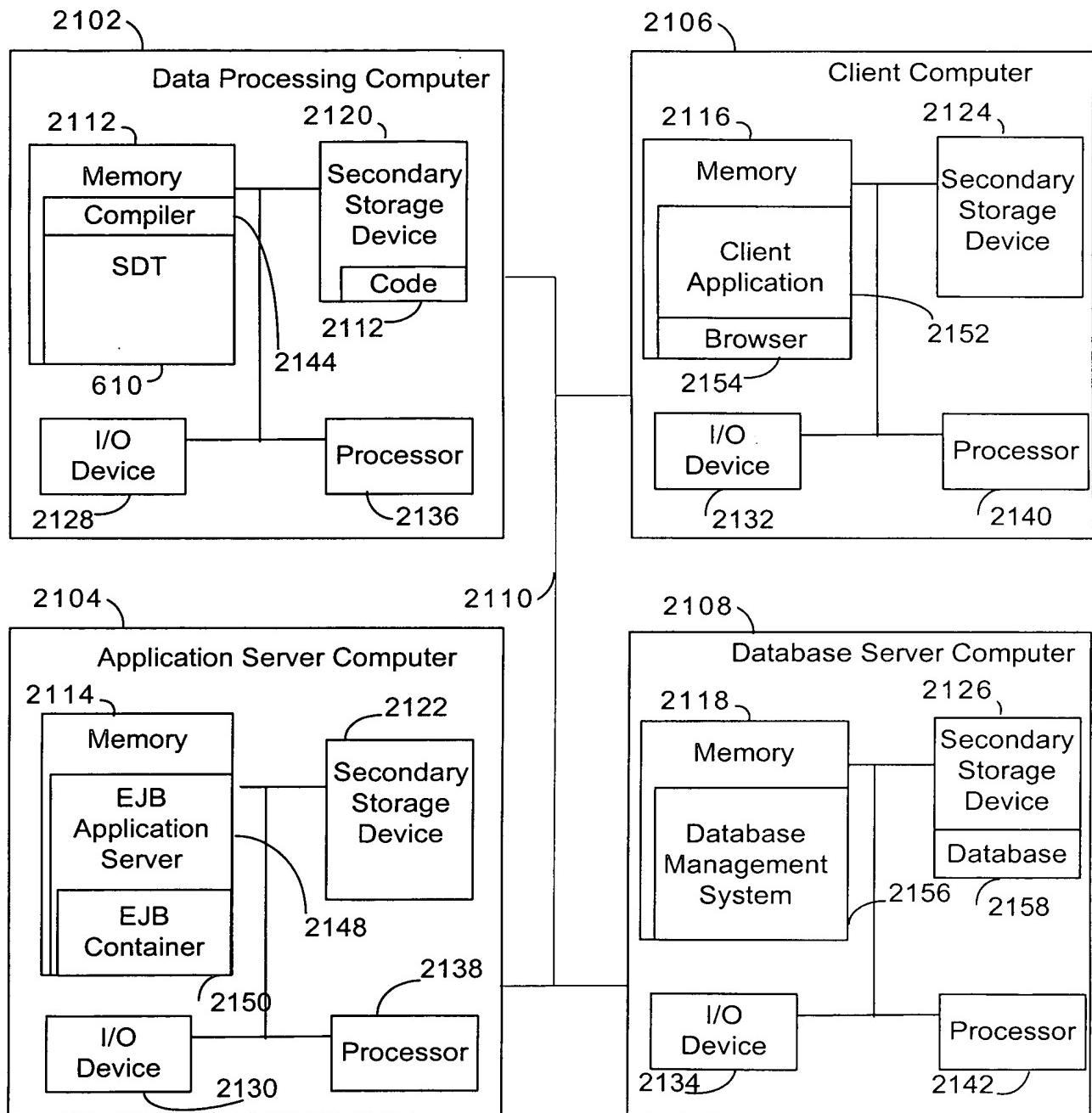


FIG. 22A

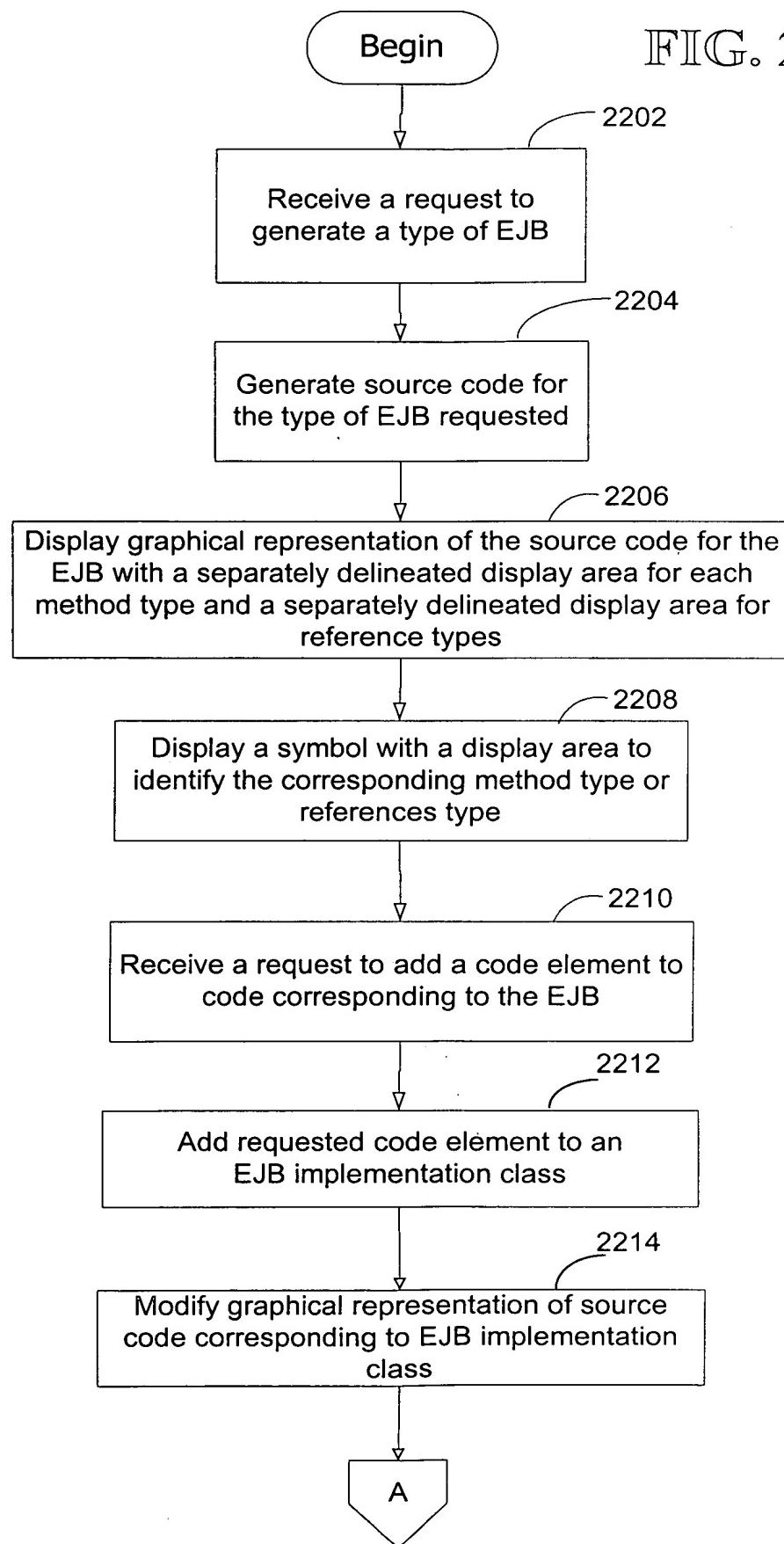


FIG. 22B

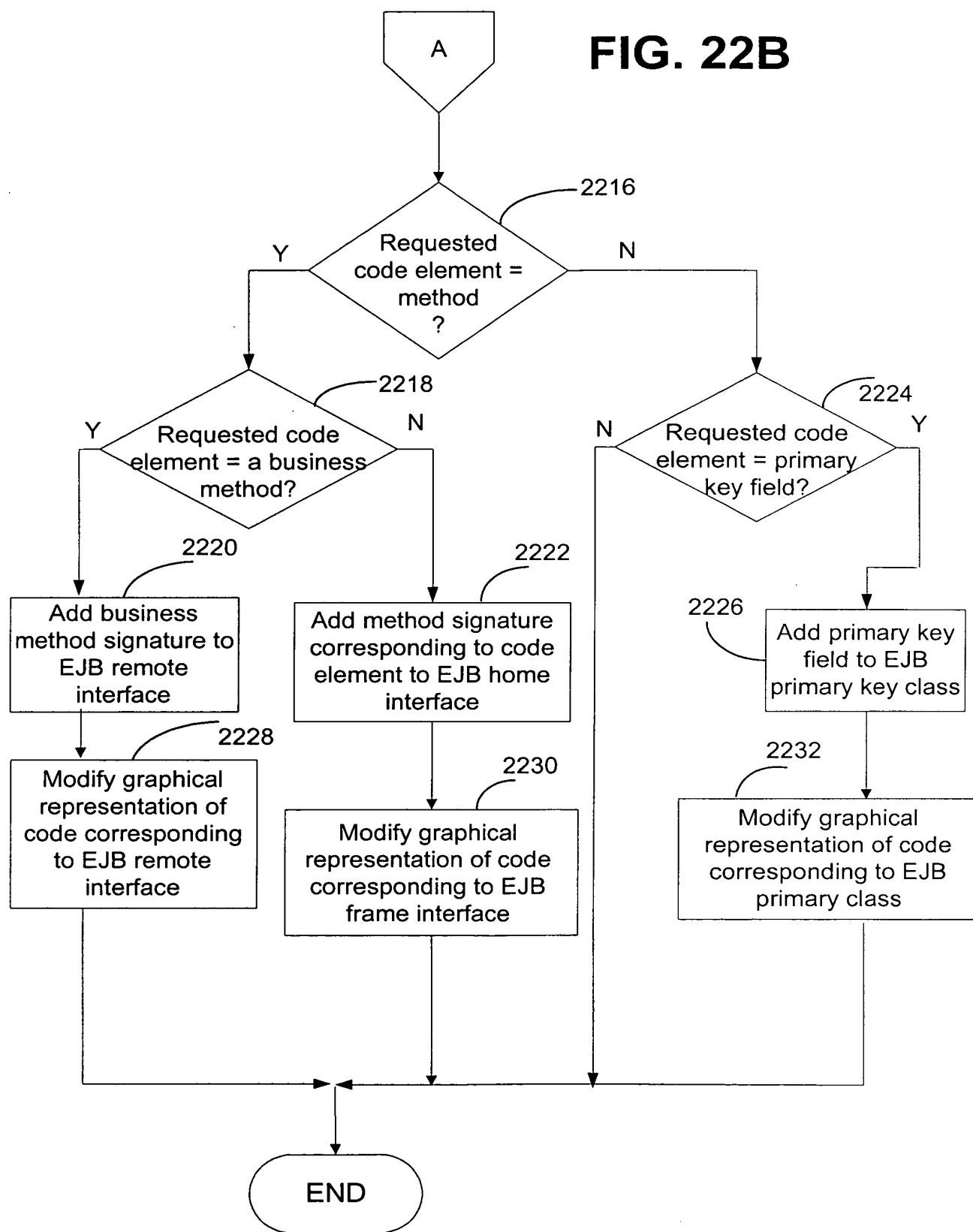


FIG. 23

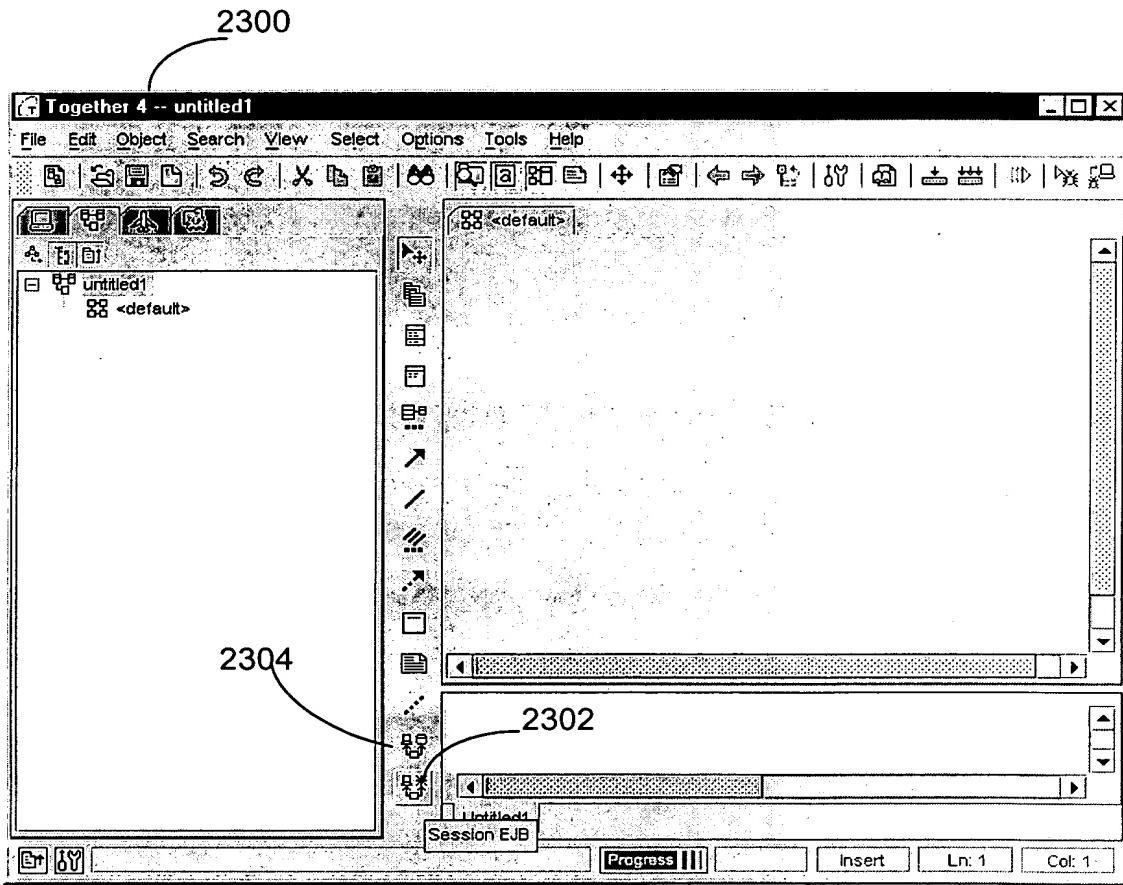


FIG. 24

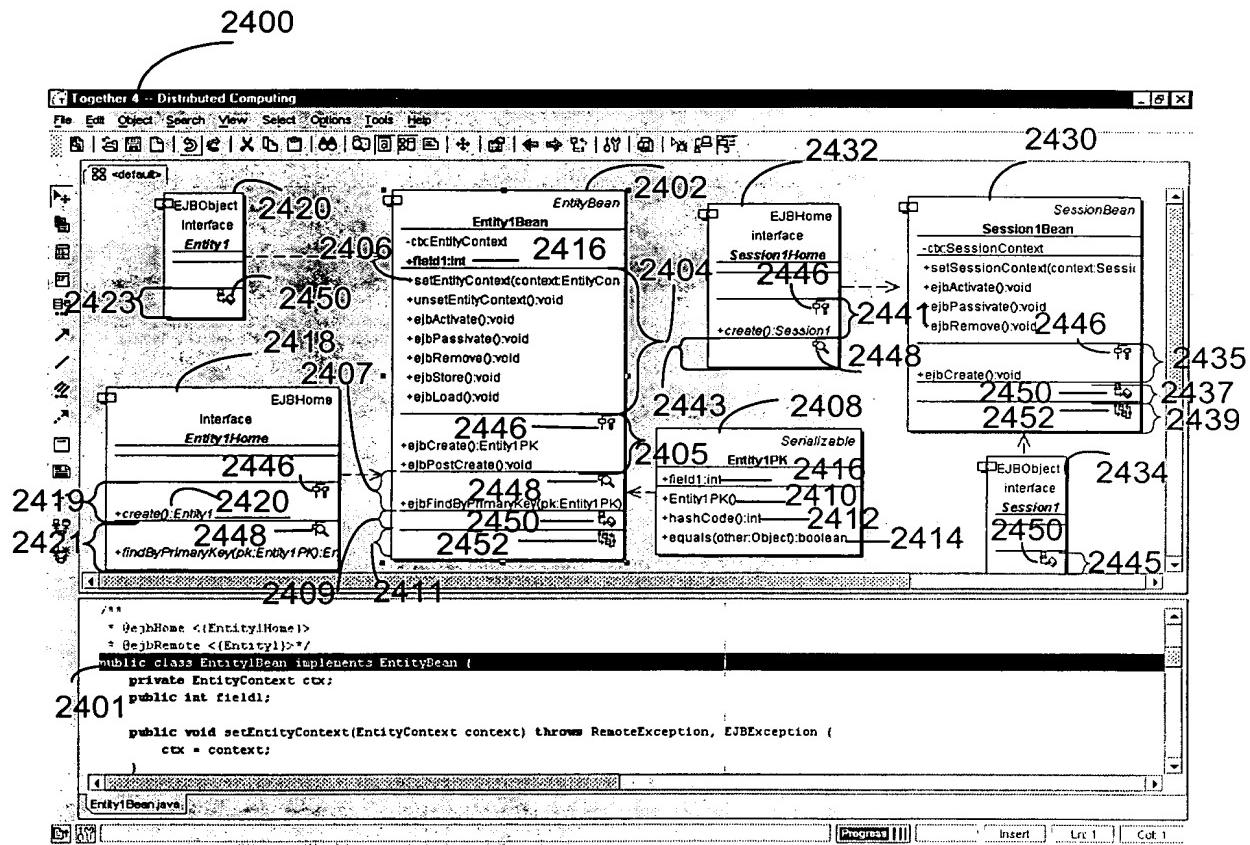


FIG. 25

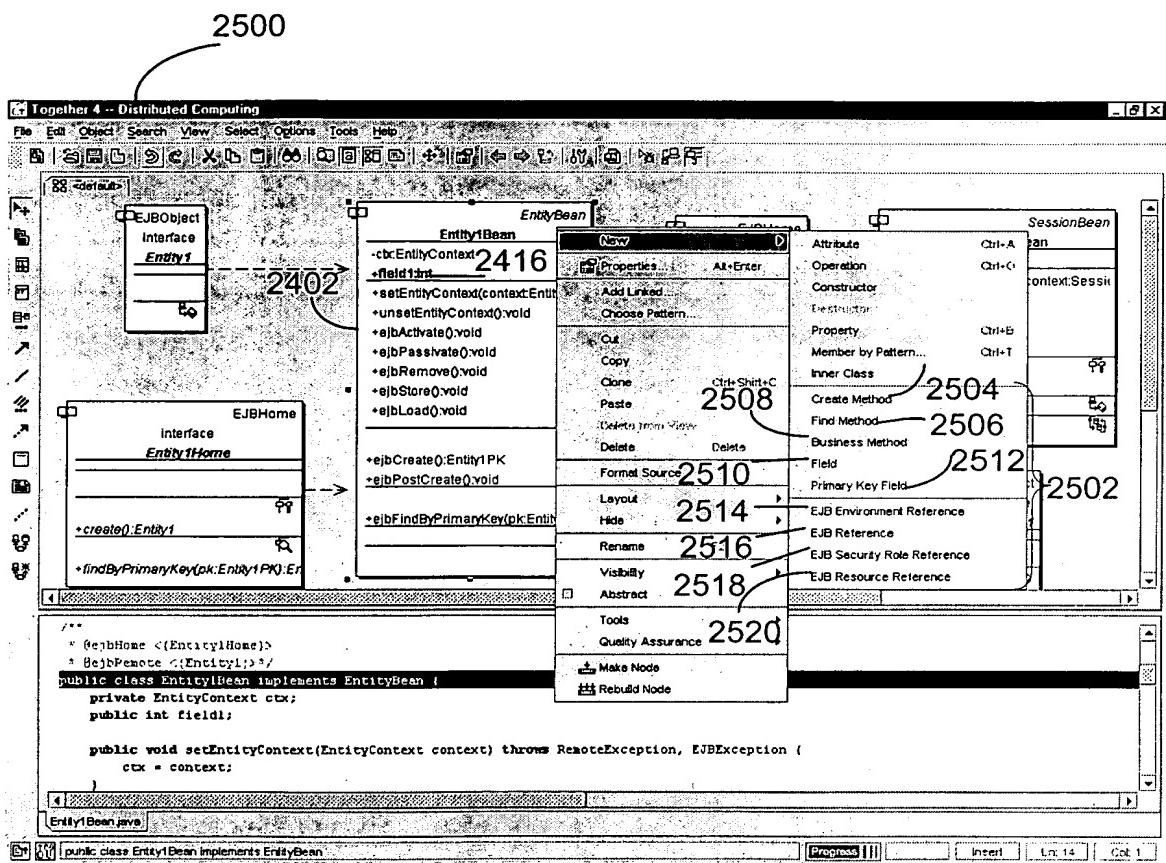


FIG. 26

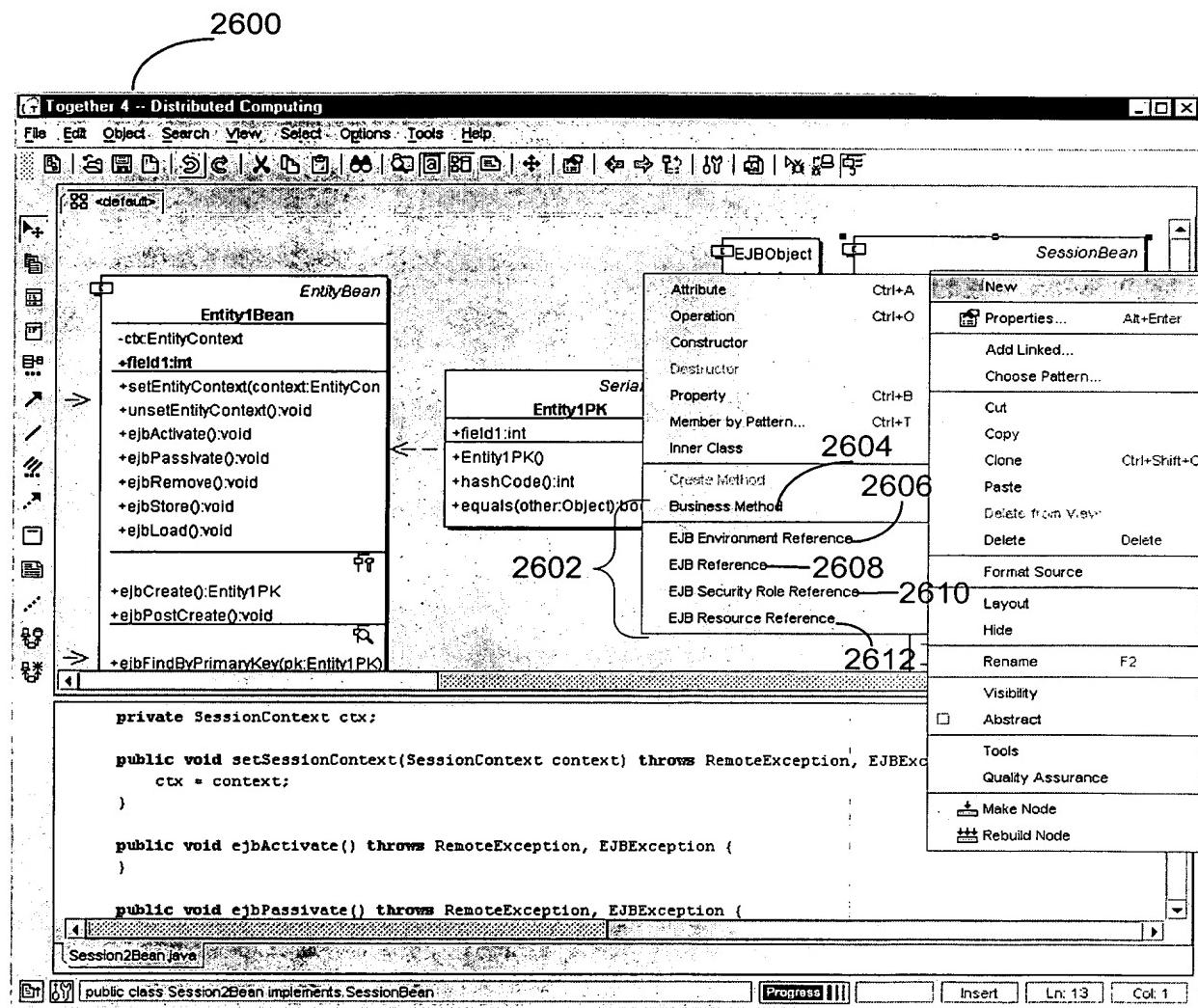


FIG. 27

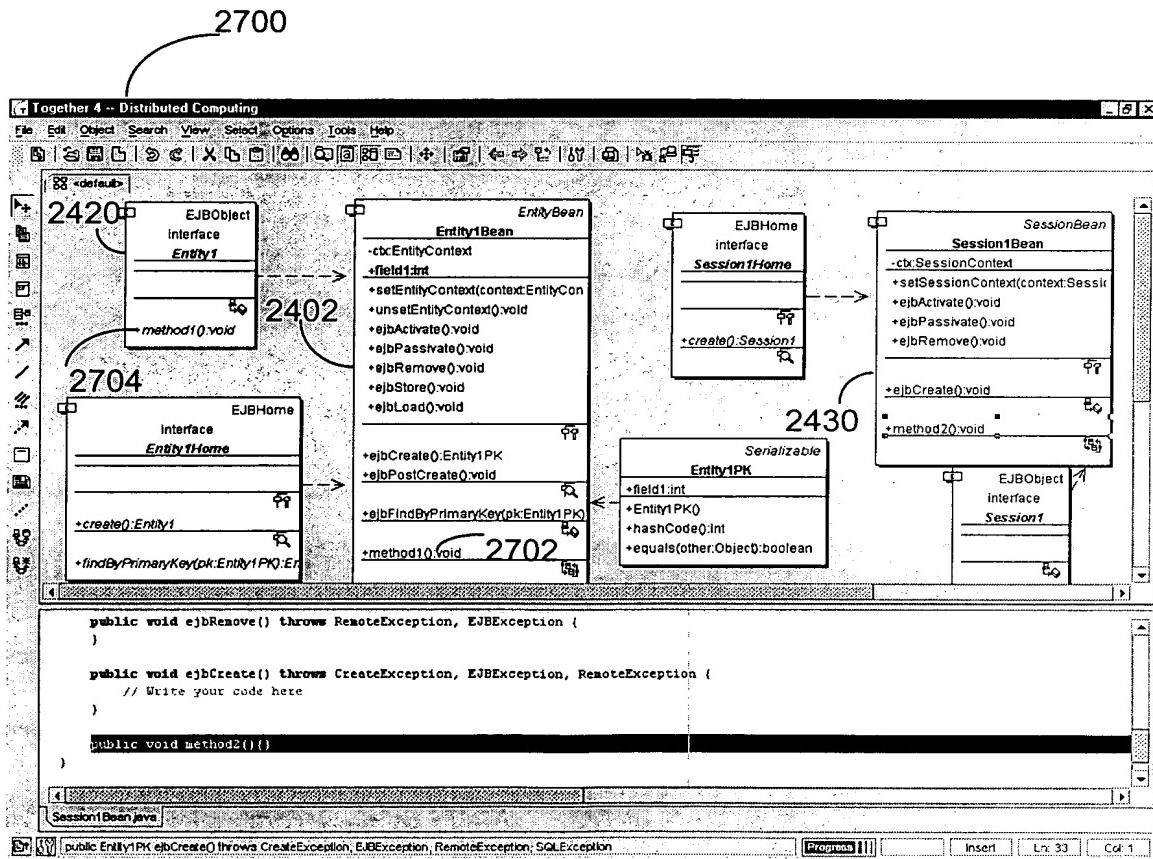


FIG. 28

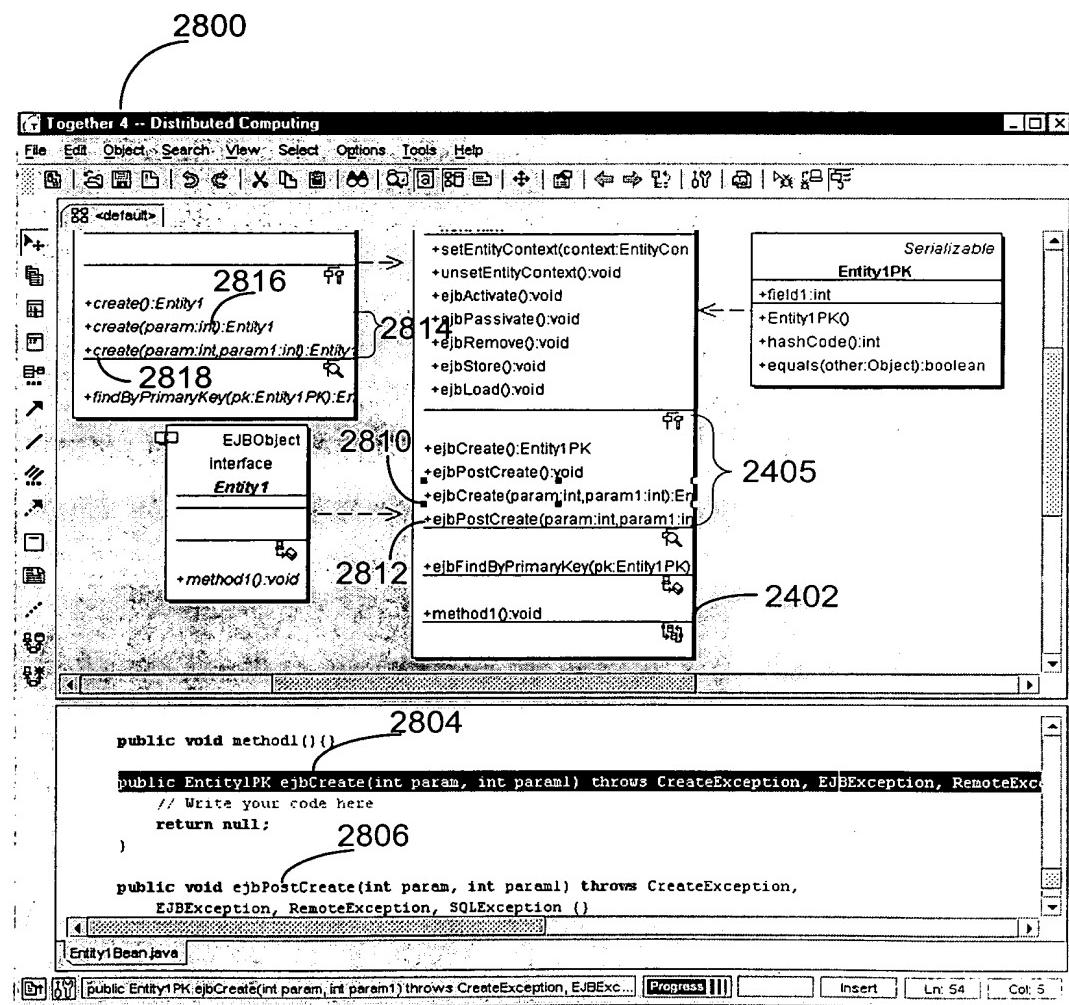


FIG. 29

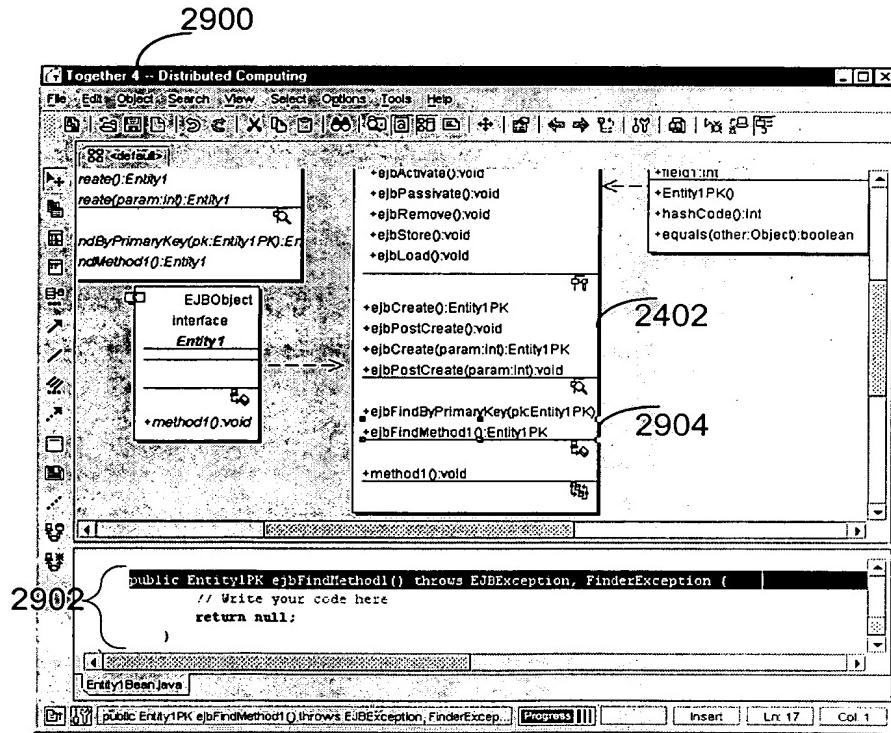


FIG. 30

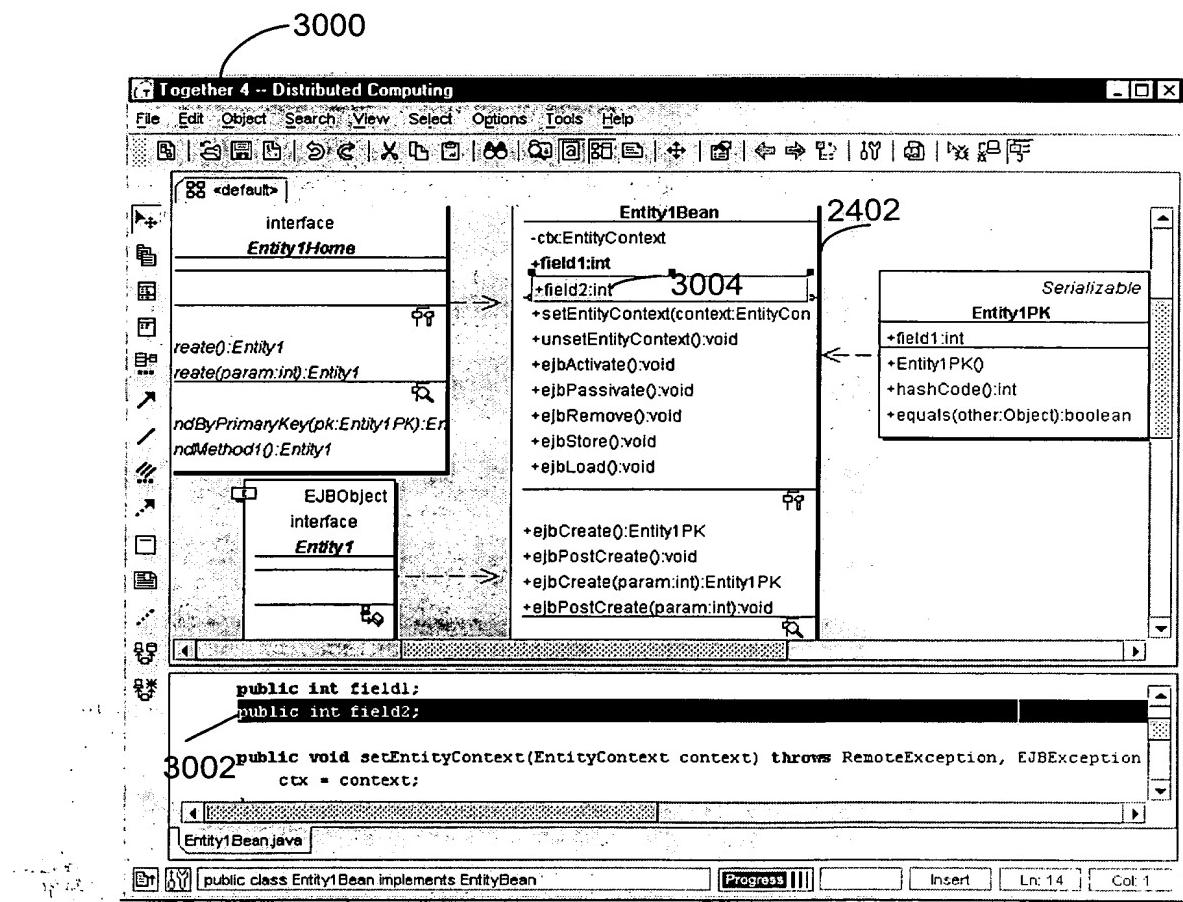


FIG. 31

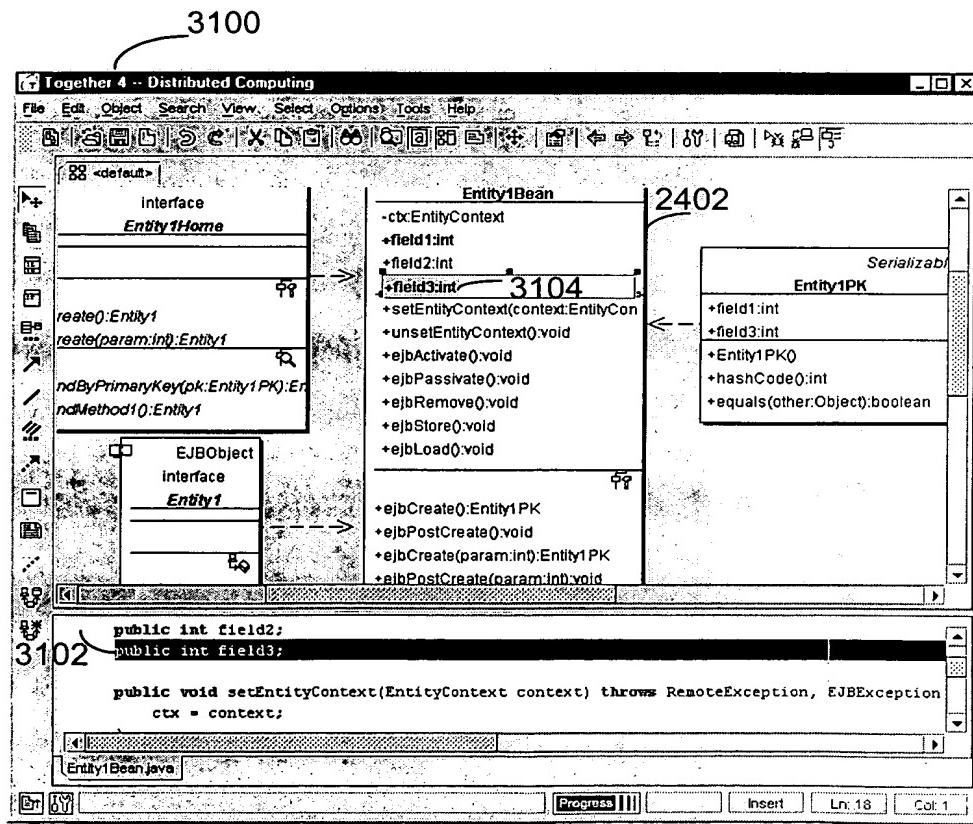


FIG. 32

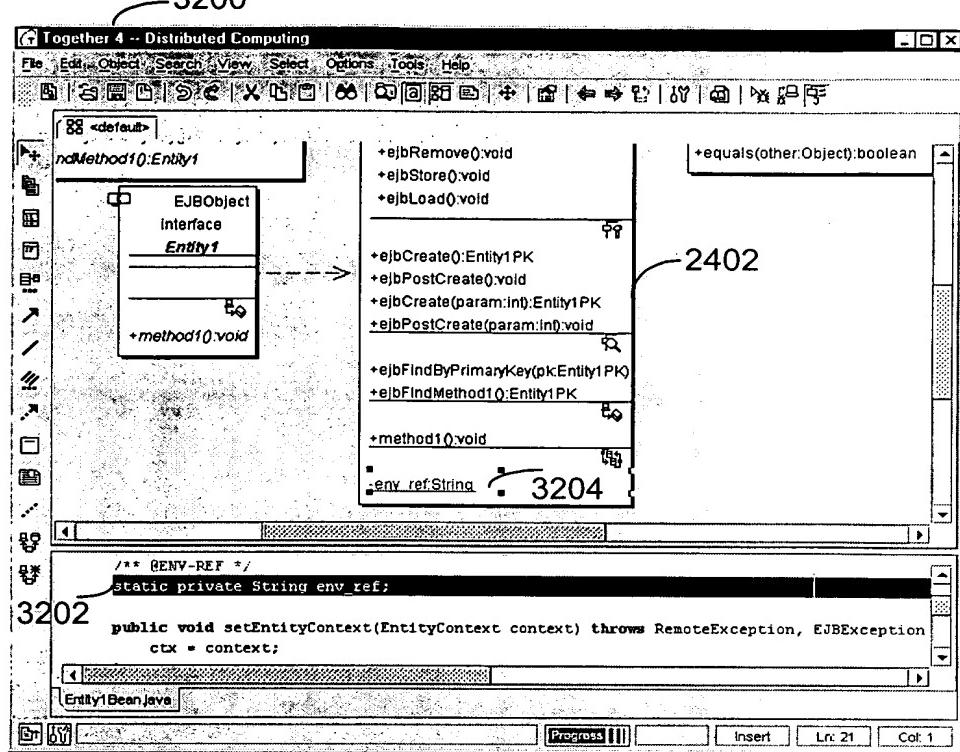


FIG. 33

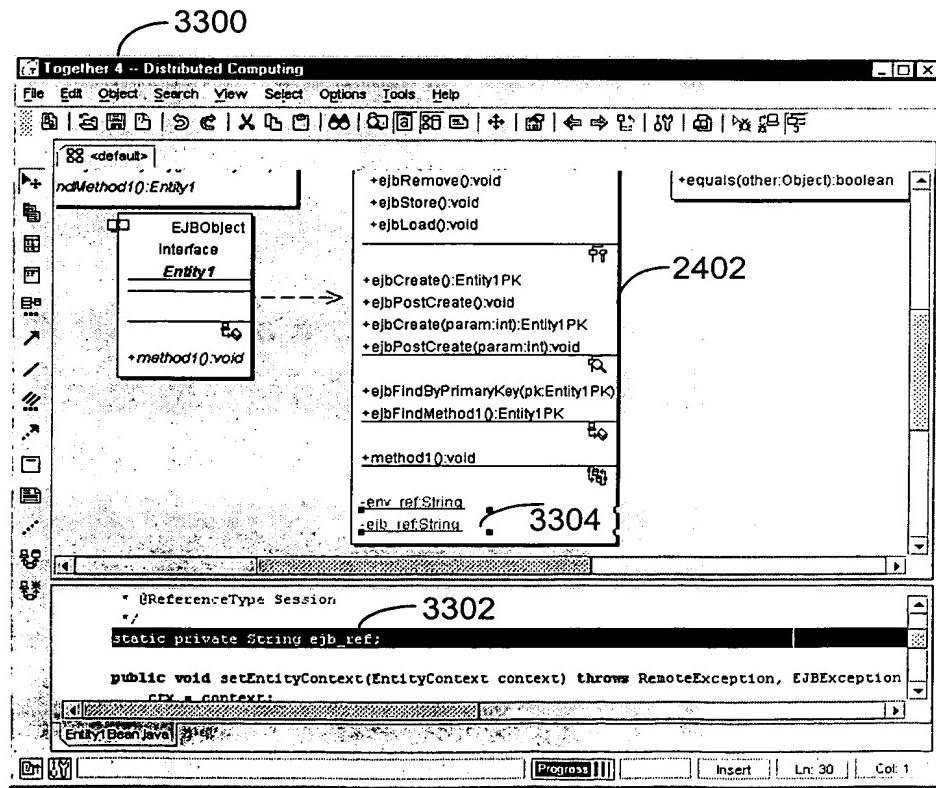


FIG. 34

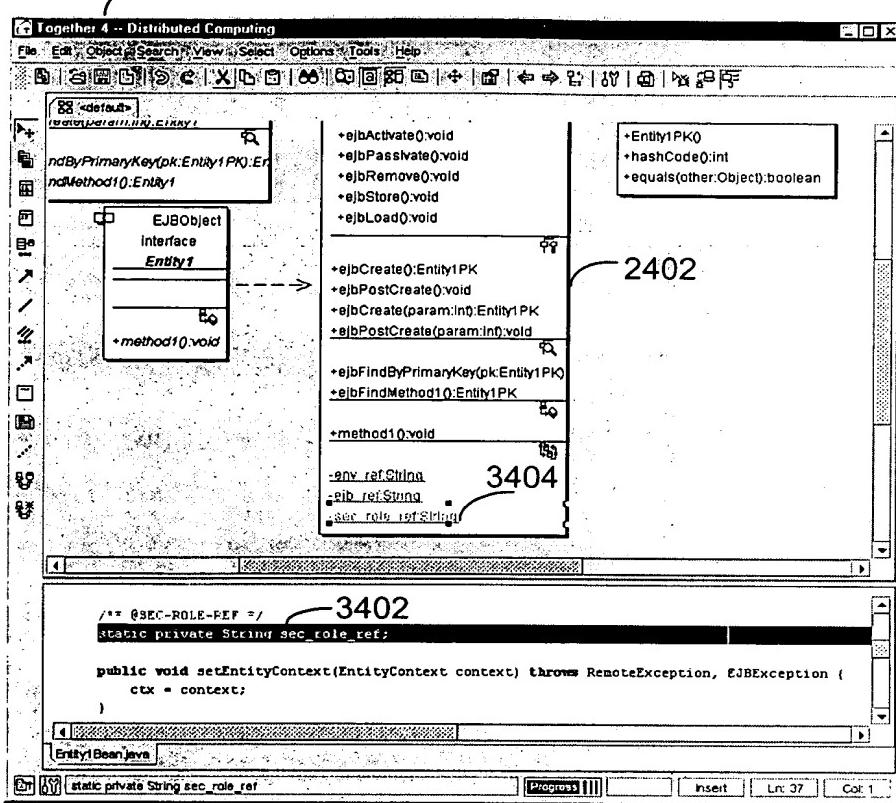


FIG. 35

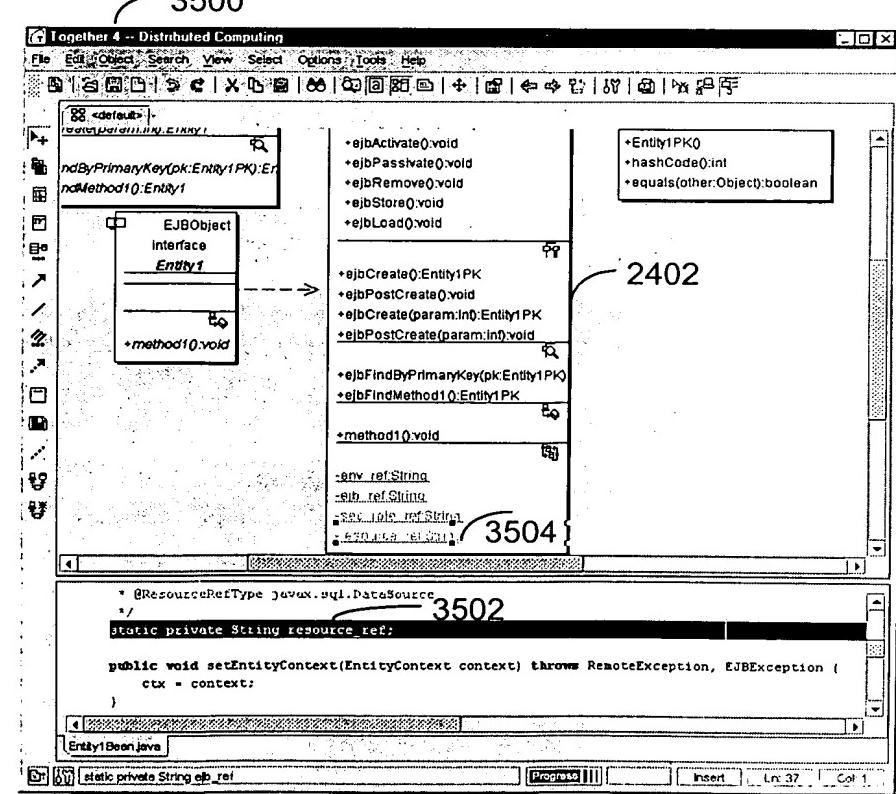


FIG. 36

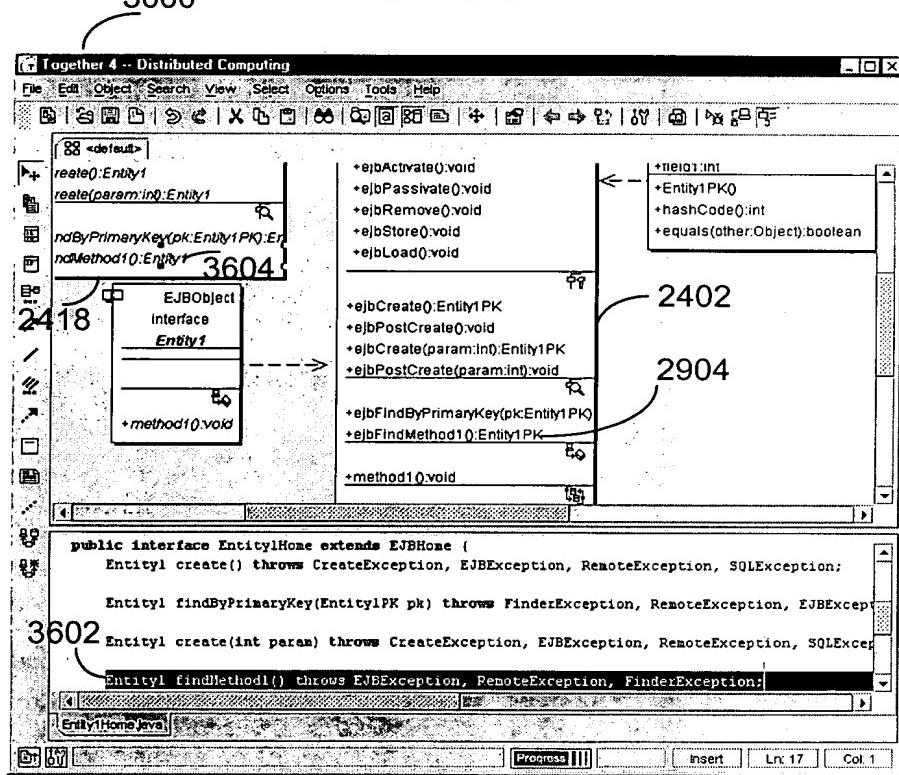


FIG. 37

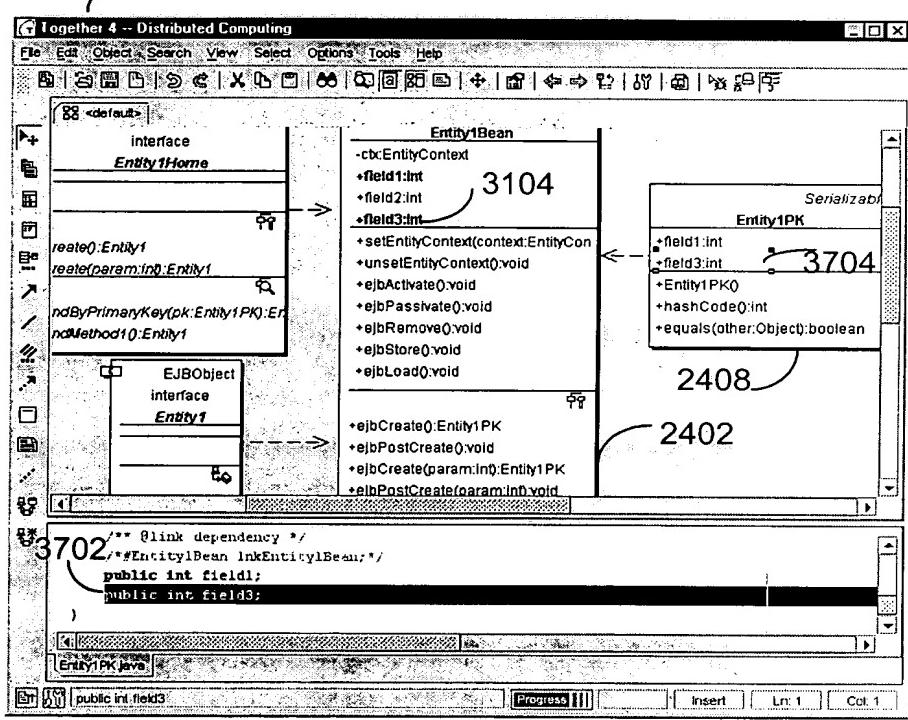


FIG. 38A

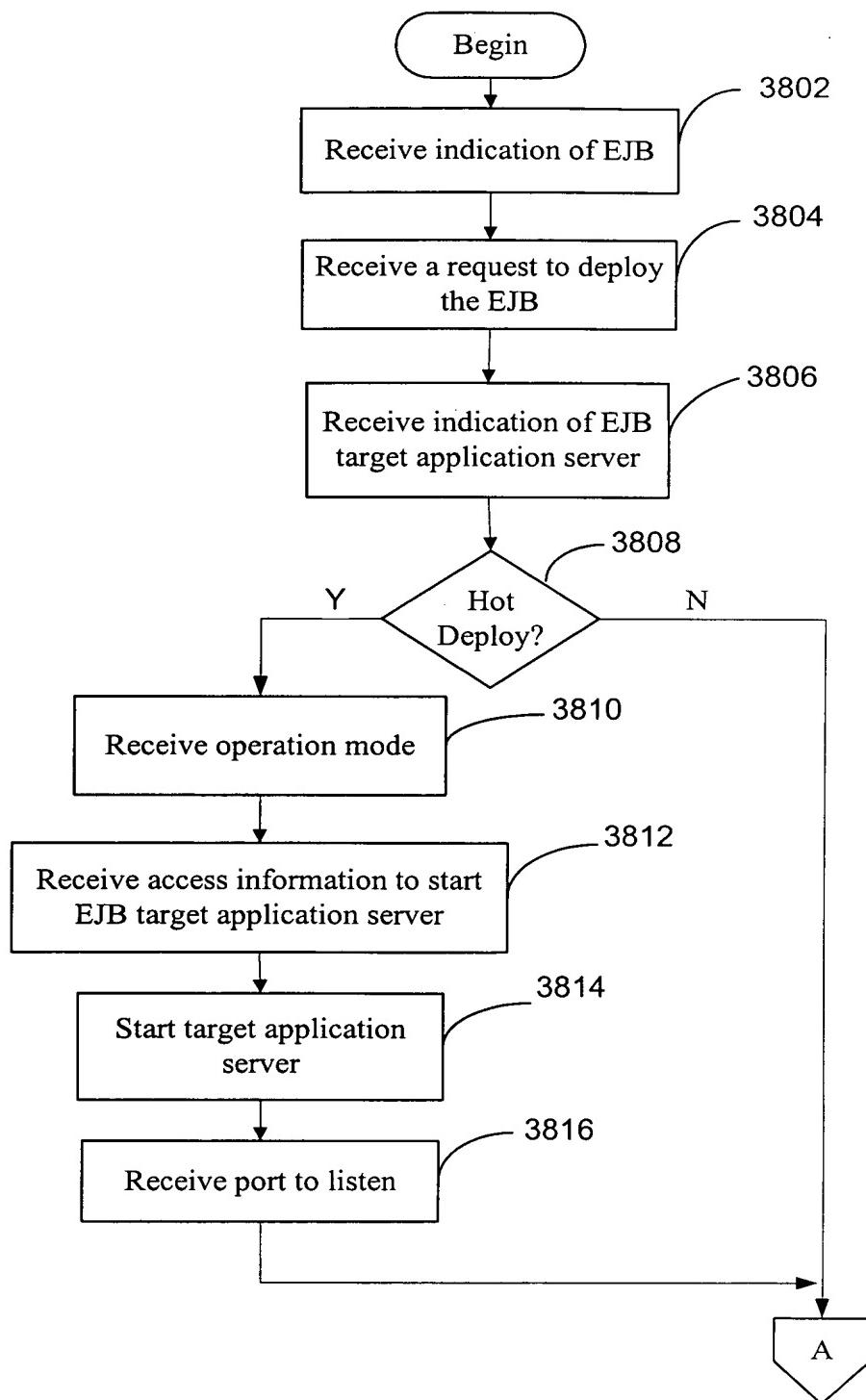


FIG. 38B

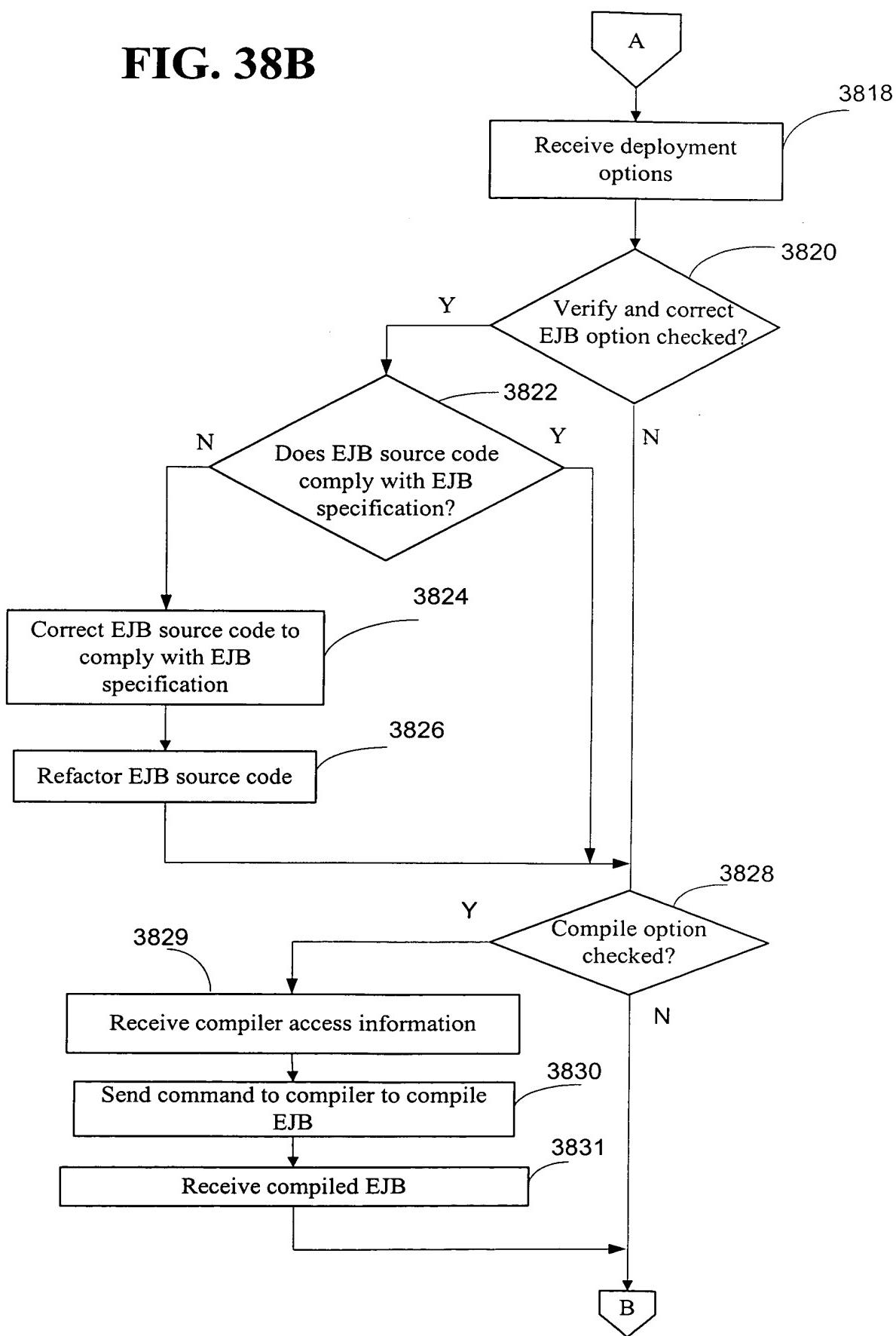


FIG. 38C

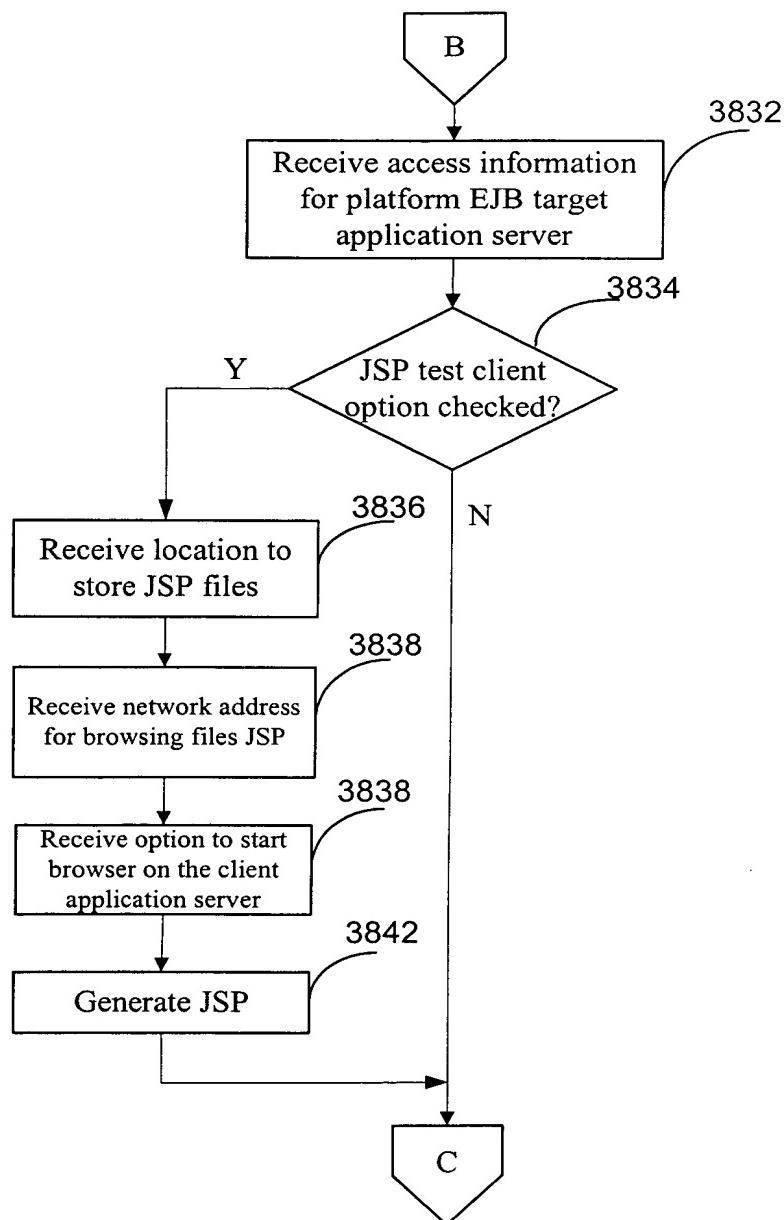


FIG. 38D

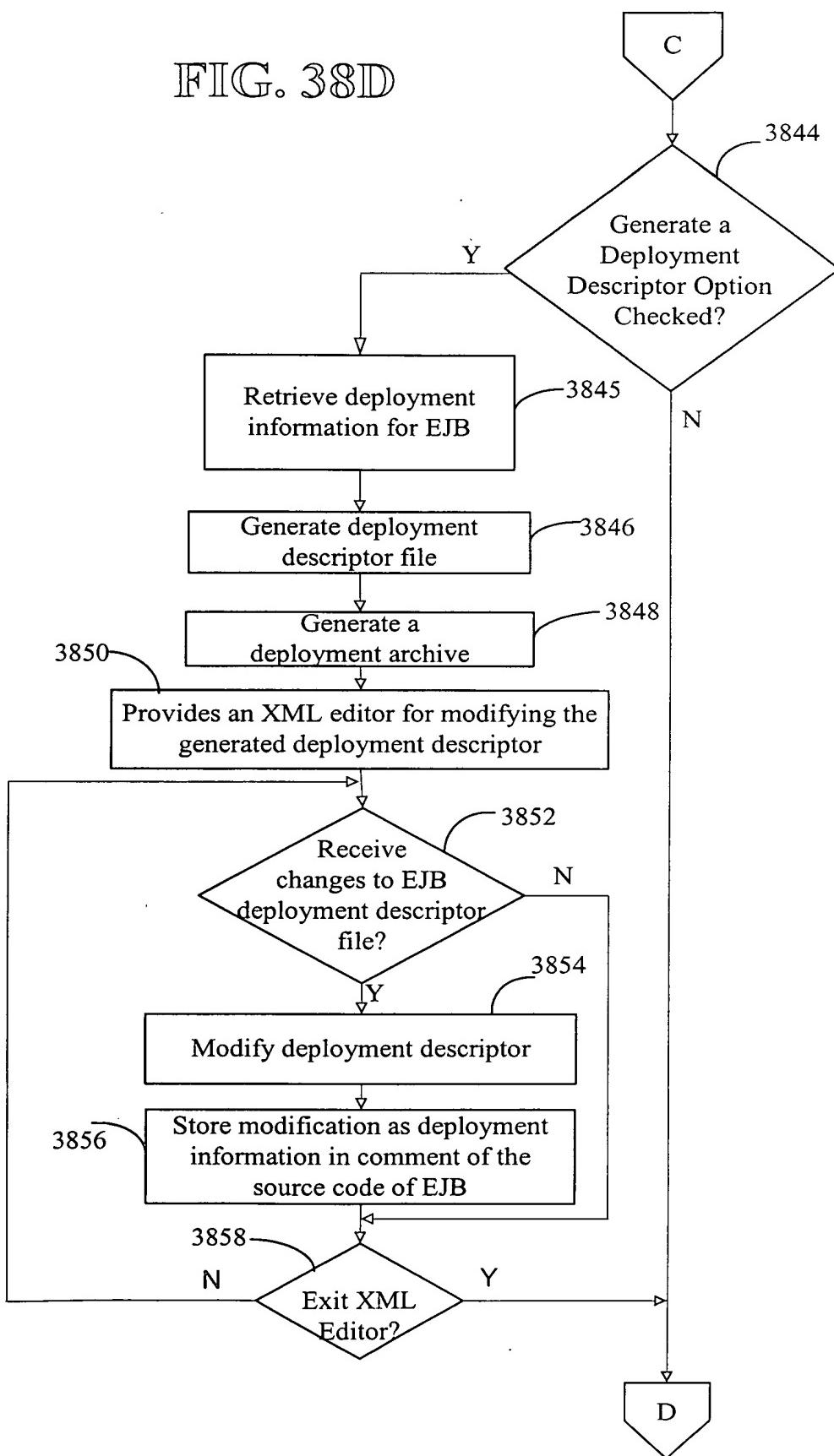


FIG. 38E

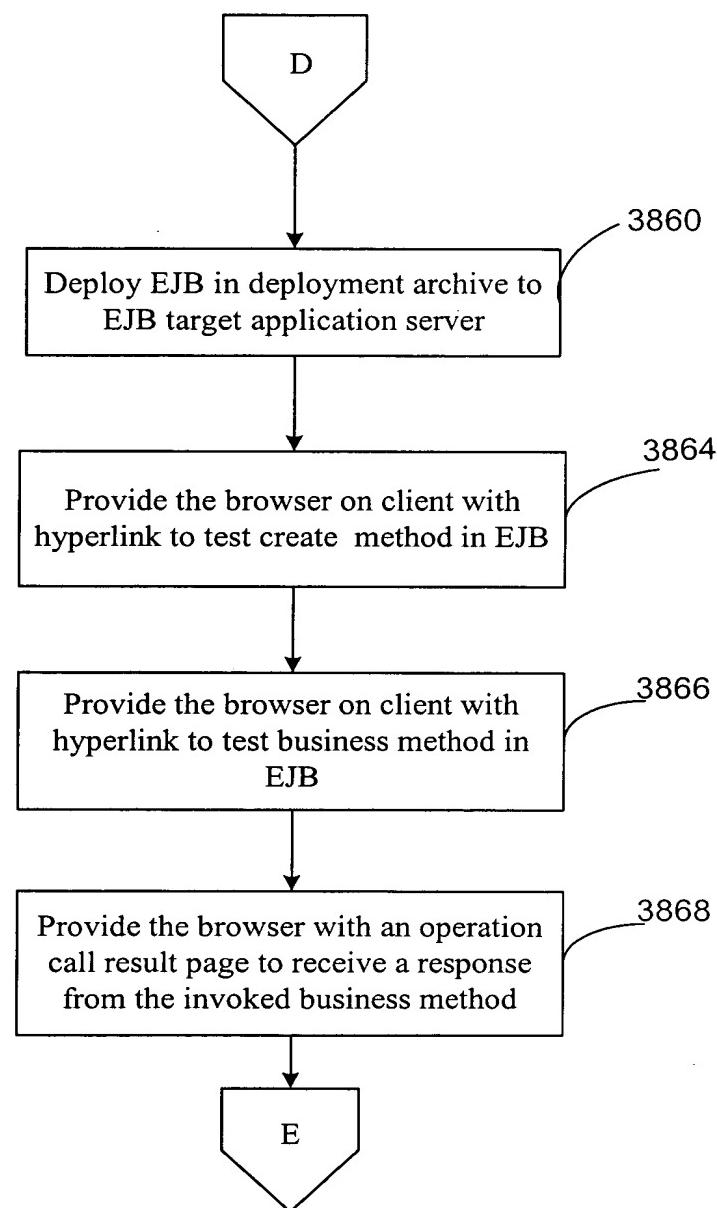


FIG. 38F

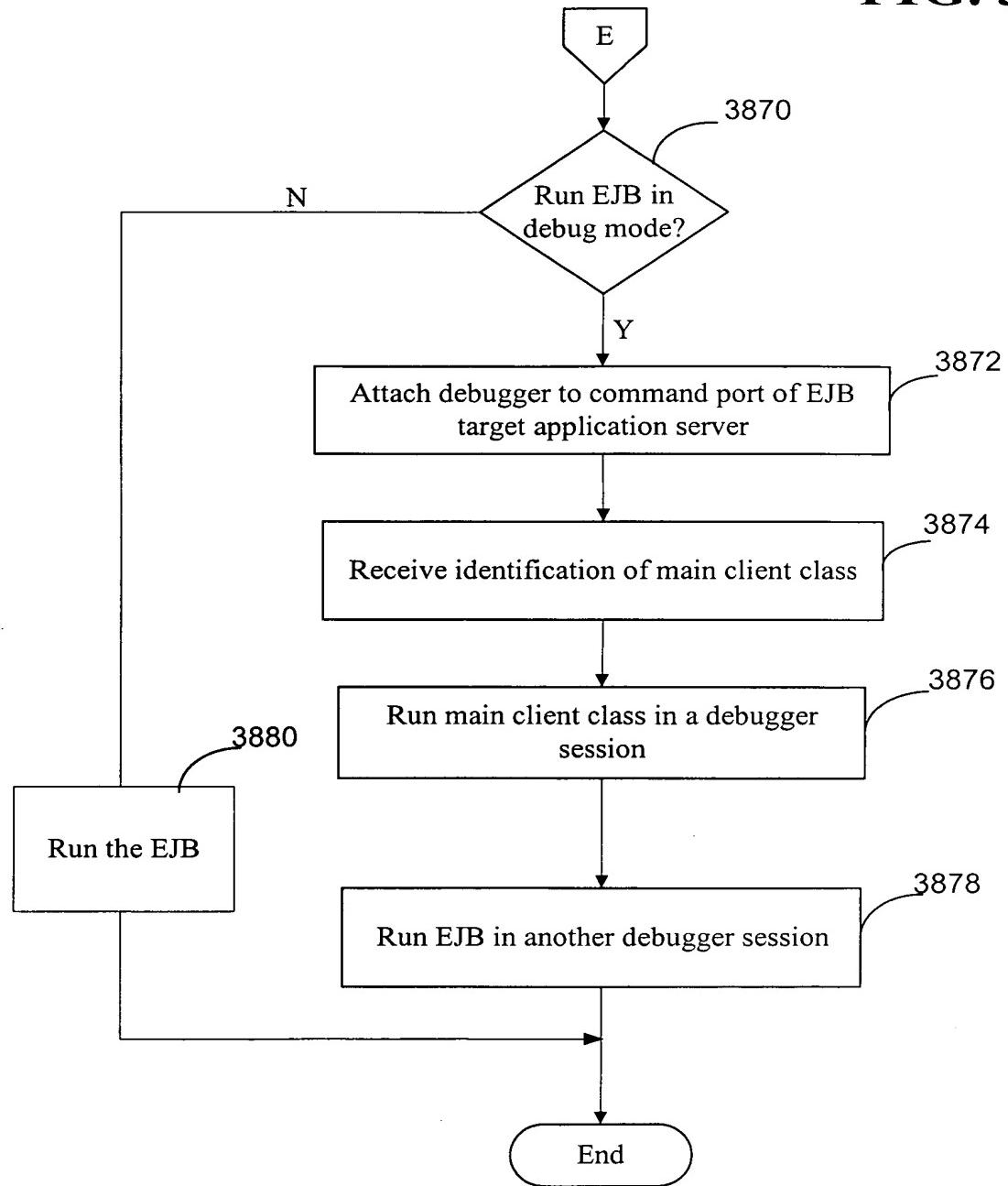


FIG. 39

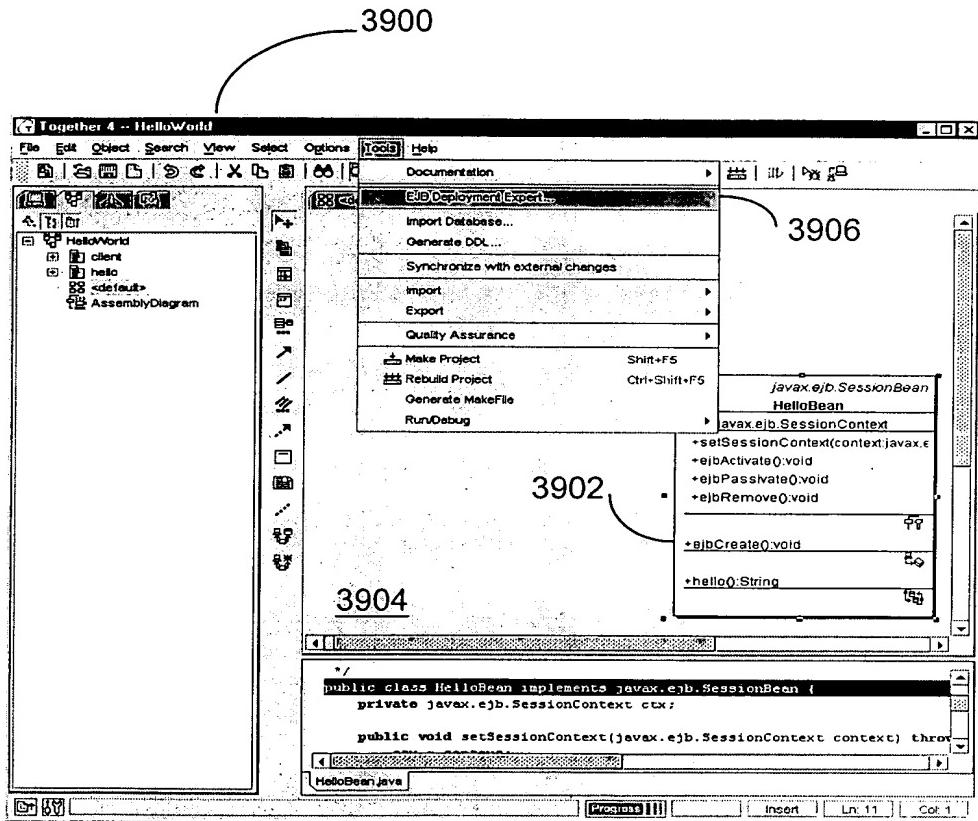


FIG. 40

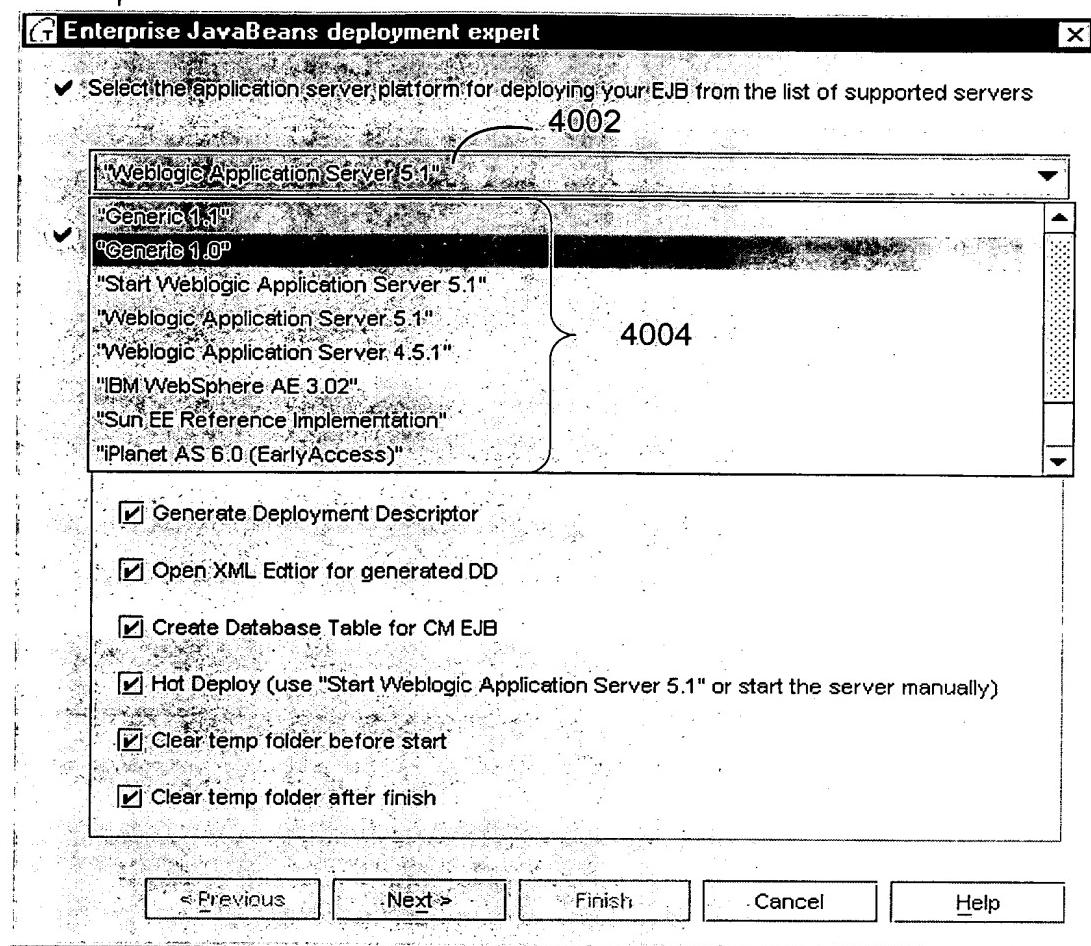


FIG. 41

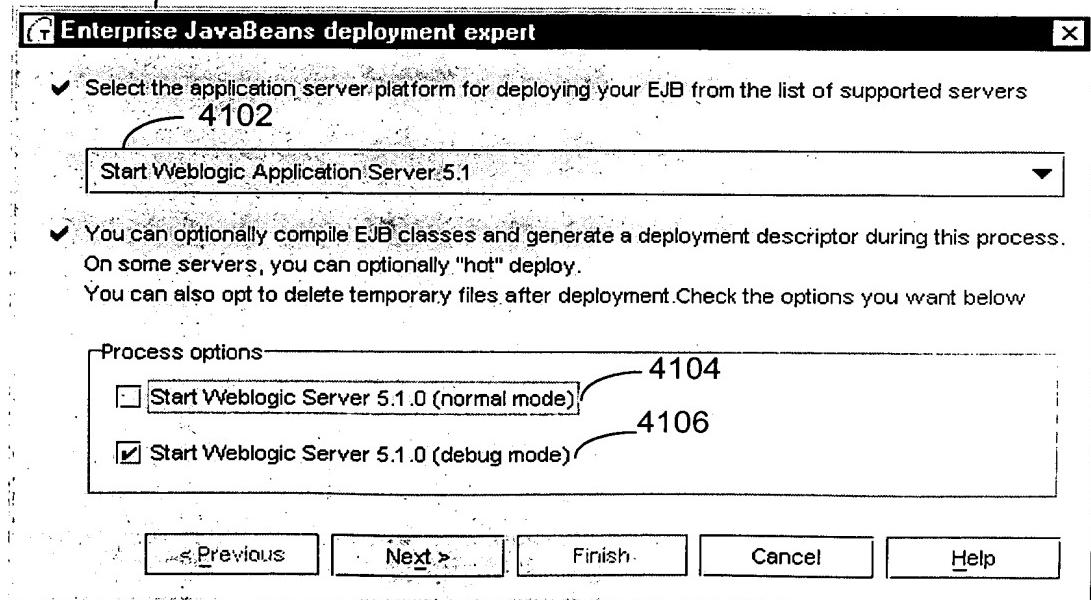


FIG. 42

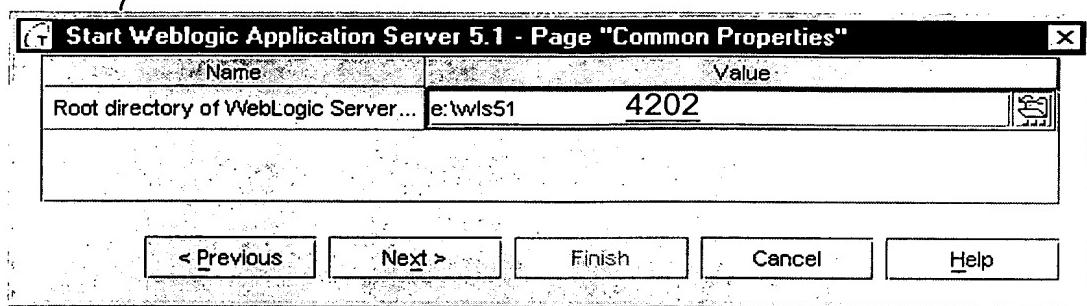


FIG. 43

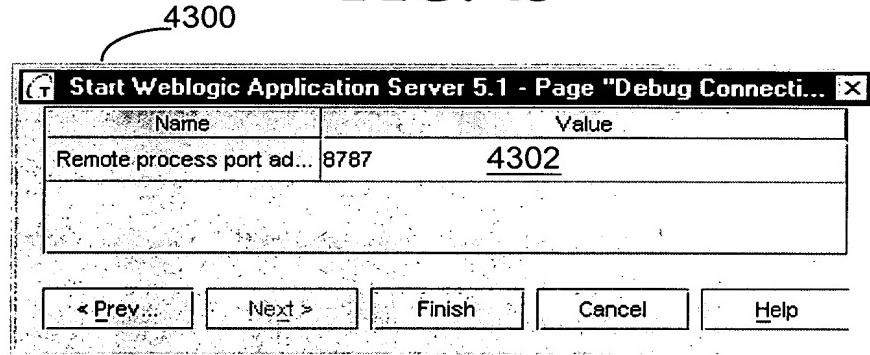


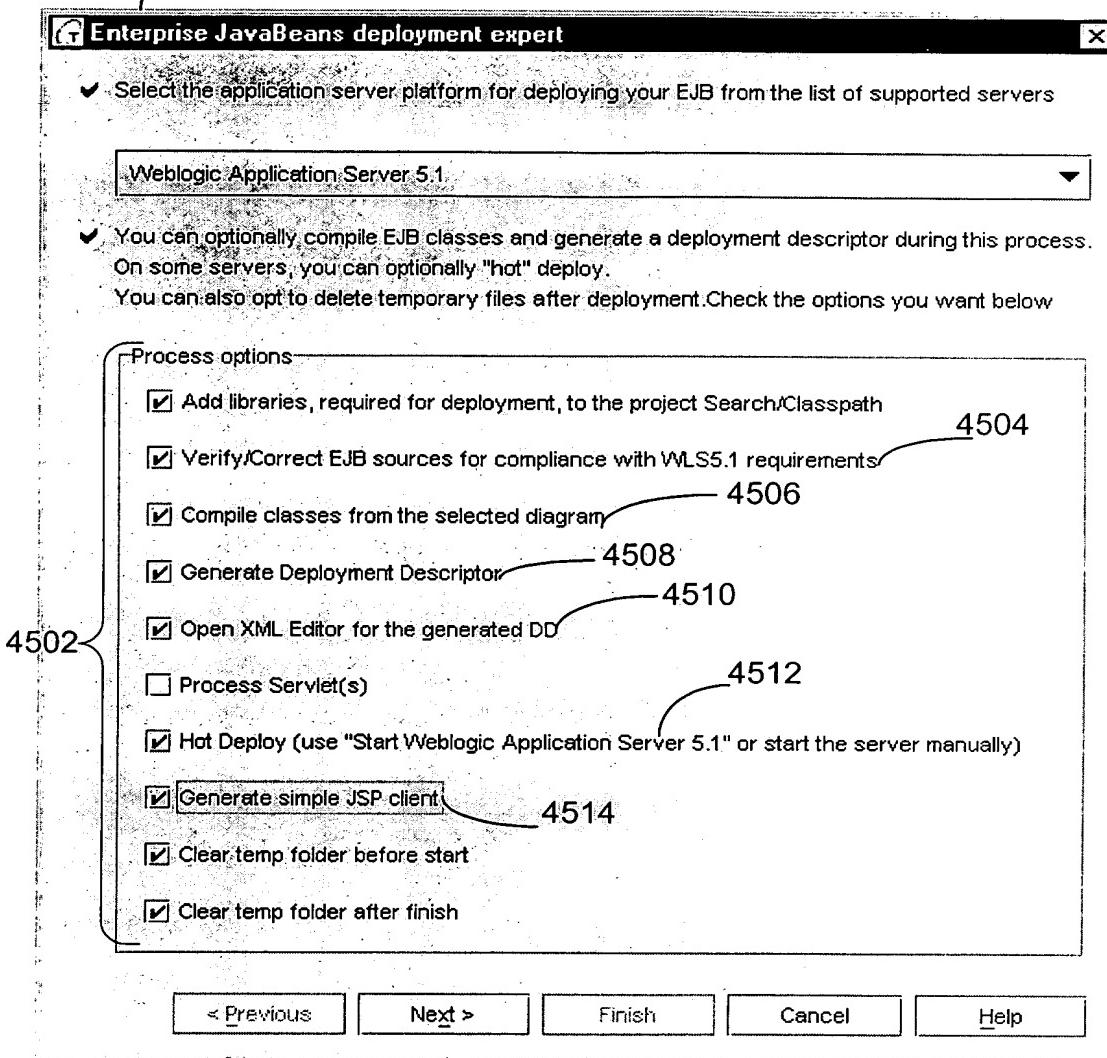
FIG. 44

4400

```
Thu Dec 14 15:40:27 EST 2000:<I> <EJB> 0 deployed, 0 failed to deploy.  
Thu Dec 14 15:40:28 EST 2000:<I> <ZAC> ZAC ACLs initialized  
Thu Dec 14 15:40:28 EST 2000:<I> <ZAC> ZAC packages stored in local directory ex  
ports  
Thu Dec 14 15:40:28 EST 2000:<I> <ListenThread> Listening on port: 7001  
<NT Performance Pack> NATIVE: created IoCompletionPort successfully. IoPort=0x00  
0002a4  
Thu Dec 14 15:40:29 EST 2000:<I> <WebLogicServer> WebLogic Server started
```

4402
4404

4500

FIG. 45

4600

FIG. 46

Name	Value
Stop deployment if verification fails	<input checked="" type="checkbox"/> 4602
Correct sources to comply with WLS5.1	<input checked="" type="checkbox"/> 4604
Backup original sources before correction	<input checked="" type="checkbox"/>
Backup directory (if "correct sources" is selected)	c:\temp\backup <input style="width: 20px; height: 20px; border: none; background-color: transparent;" type="button" value="..."/>

At the bottom are buttons for '< Previous', 'Next >', 'Finish', 'Cancel', and 'Help'.

4700

FIG. 47

Weblogic Application Server 5.1 - Page "Common Properties"

Name	Value
Folder for the temporary files	c:\temp
Folder for the generated JAR file	c:\temp
JDK 1.2 root directory	e:\jdk1.2.2 4702
Root directory of WebLogic Server...	e:\wls5_1
Short name of EJB JAR file	togetherEJB.jar
Directory to compile Servlet	e:\wls5_1\myserver\servletclasses

< Previous Next > Finish Cancel Help

4800

FIG. 48

Weblogic Application Server 5.1 - Page "Run-time deploy"

Name	Value
System password	***** 4804
Server port	4802 4806
Server host	localhost 4808

< Previous Next > Finish Cancel Help

4900

FIG. 49

Weblogic Application Server 5.1 - Page "Simple JSP client generation"

Name	Value
WebLogic public directory	e:\wls5_1\myserver\public_html 4902
Subdirectory for placing JSP files	myJSP 4904
Base URL for browsing JSP	http://localhost:7001/ 4906
Show result after generation	<input checked="" type="checkbox"/>

< Previous Next > Finish Cancel Help

FIG. 50

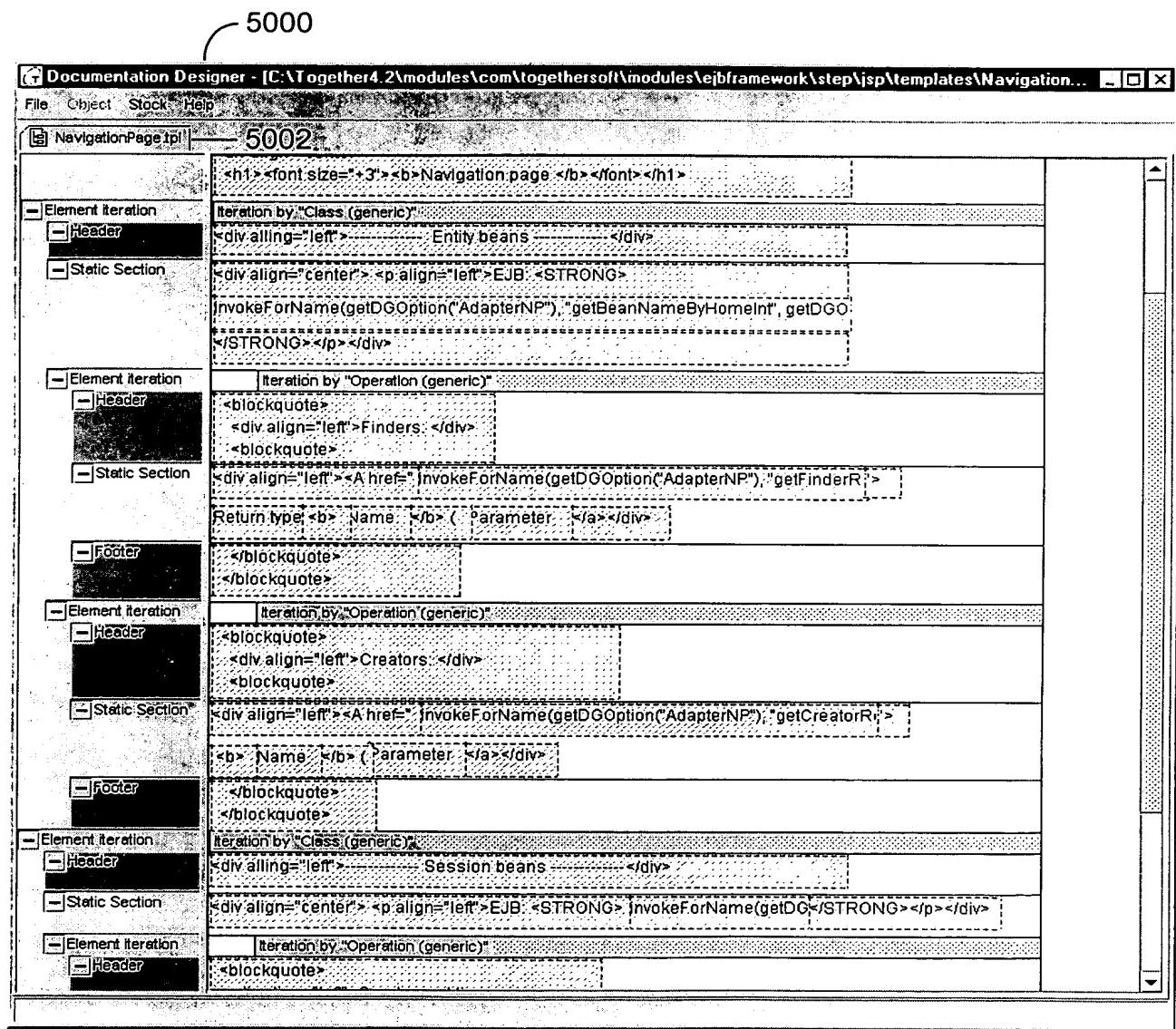


FIG. 51

The diagram shows an XML document for an Enterprise JavaBean (EJB) jar. The XML code is as follows:

```
<?xml version="1.0"?>  
<!DOCTYPE ejb-jar PUBLIC '-//Sun Microsystems, Inc.//DTD Enterprise  
JavaBeans 1.1//EN' 'http://java.sun.com/j2ee/dtds/ejb-jar_1_1.dtd'>  
<ejb-jar> 5108  
  <enterprise-beans> 5102 5112 5106  
    <session> 5116 5104  
      <ejb-name>HelloBean</ejb-name> 5120  
      <home>hello>HelloHome</home> 5122  
      <remote>hello>Hello</remote> 5124  
      <ejb-class>hello>HelloBean</ejb-class> 5126  
      <session-type>Stateful</session-type>  
      <transaction-type>Container</transaction- 5128  
type></session></enterprise-beans> 5114  
  <assembly-descriptor>  
    <container-transaction>  
      <method>  
        <ejb-name>HelloBean</ejb-name>  
        <method-name>*</method-name></method>  
      <method>  
        <ejb-name>HelloBean</ejb-name>  
        <method-intf>Home</method-intf>  
        <method-name>*</method-name></method>  
      <method>  
        <ejb-name>HelloBean</ejb-name>  
        <method-intf>Remote</method-intf>  
        <method-name>*</method-name></method>  
      <trans-attribute>NotSupported</trans-attribute></container-  
transaction></assembly-descriptor></ejb-jar> 5110
```

Annotations with numbers pointing to specific parts of the XML code are as follows:

- 5102 points to the opening tag <?xml version="1.0"?>
- 5104 points to the closing tag </ejb-jar>.
- 5106 points to the <session> element.
- 5108 points to the <ejb-jar> element.
- 5110 points to the closing tag </ejb-jar>.
- 5112 points to the <enterprise-beans> element.
- 5114 points to the </enterprise-beans> element.
- 5116 points to the <session> element.
- 5120 points to the <ejb-name> element.
- 5122 points to the <home> element.
- 5124 points to the <remote> element.
- 5126 points to the <ejb-class> element.
- 5128 points to the <transaction-type> element.
- 5130 points to the <assembly-descriptor> element.
- 5132 points to the <trans-attribute> element.

FIG. 52

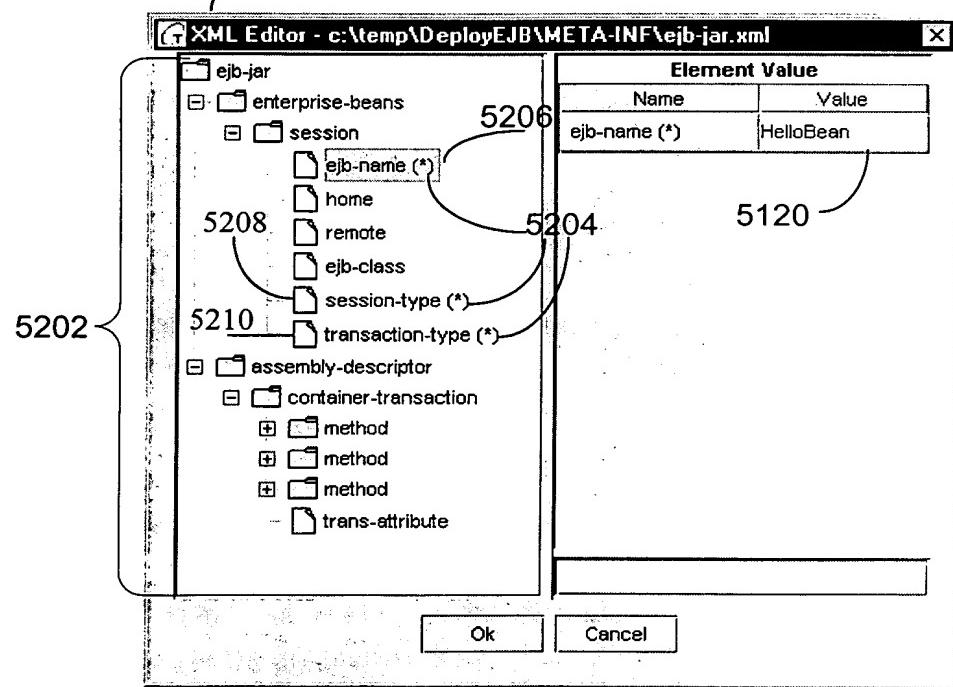


FIG. 53

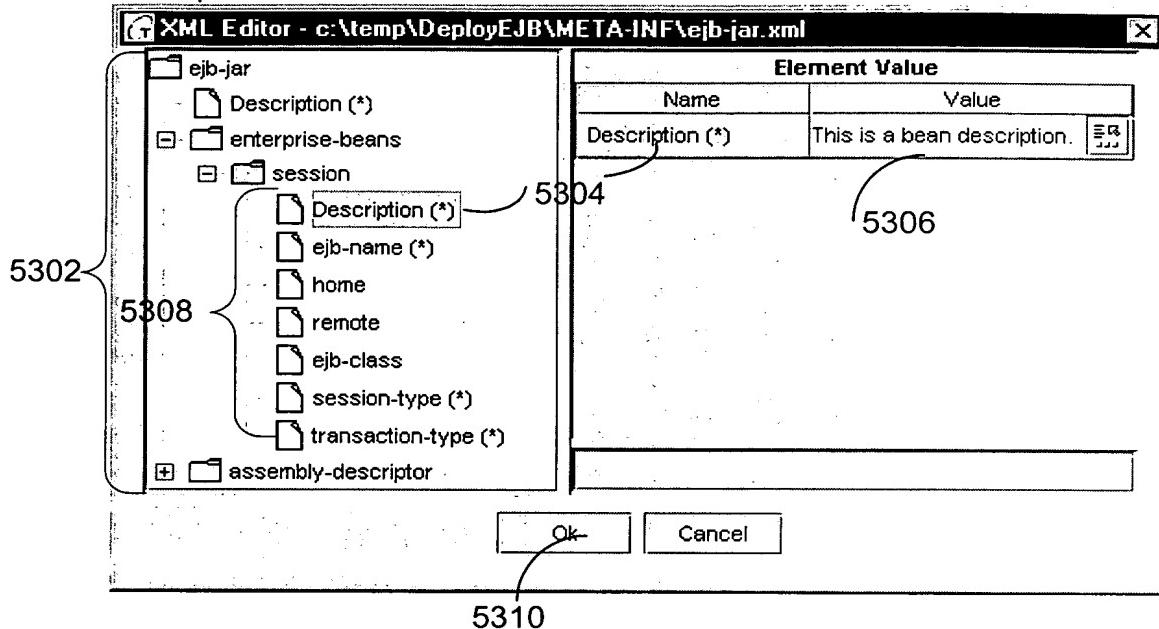
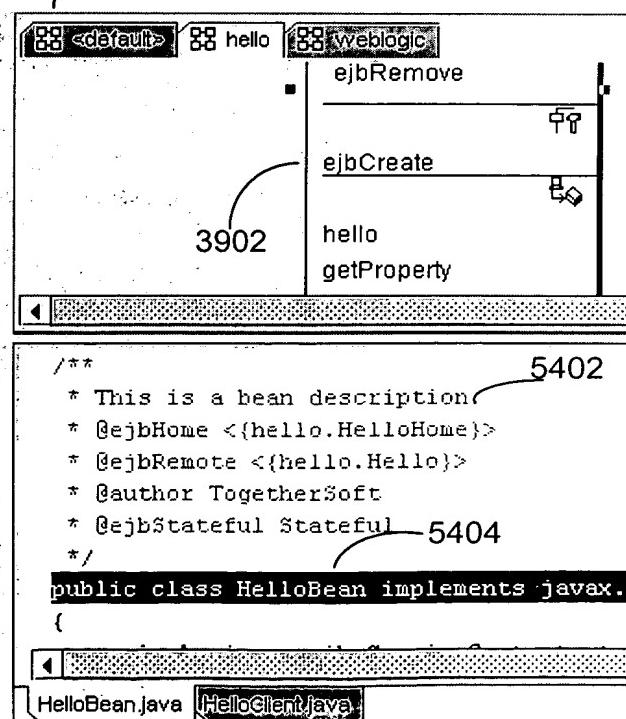
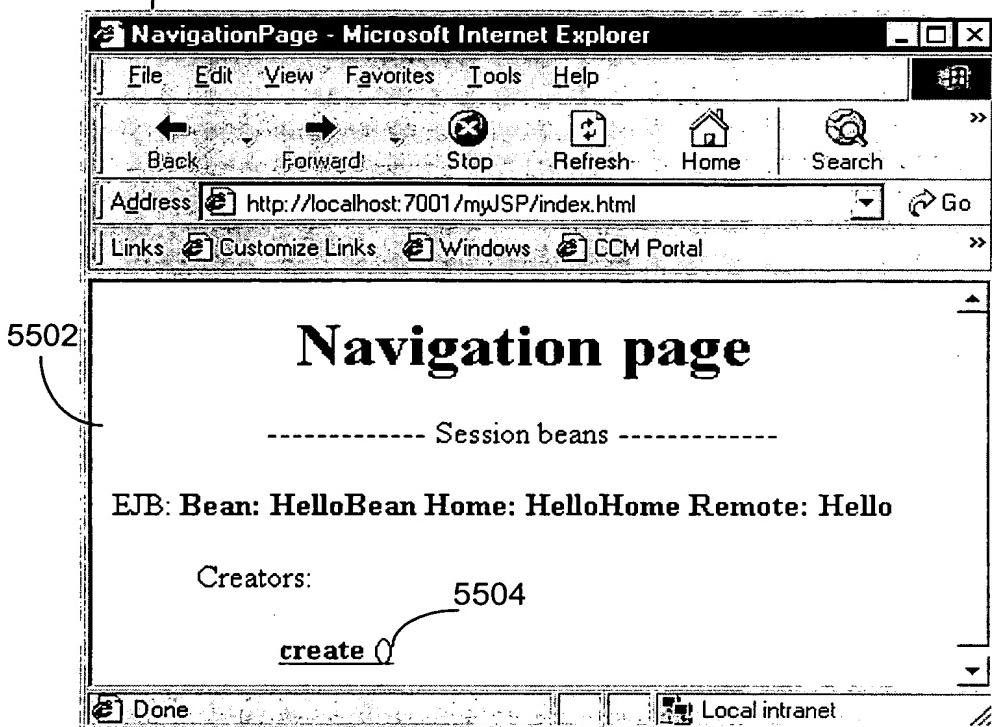


FIG. 54



5500

FIG. 55

5600

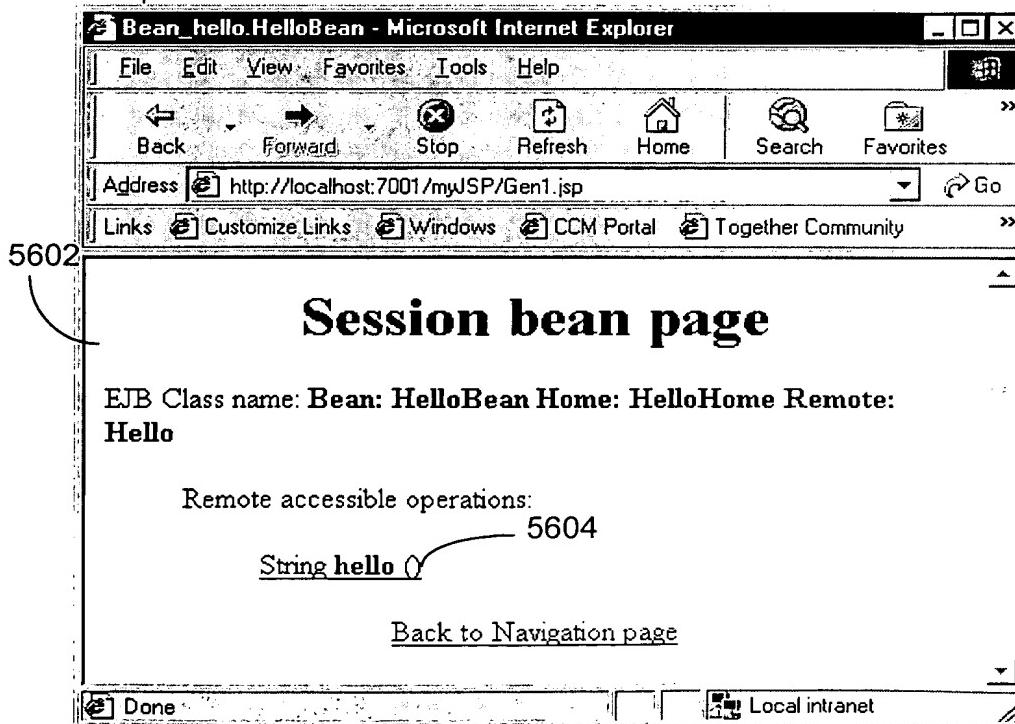
FIG. 56

FIG. 57

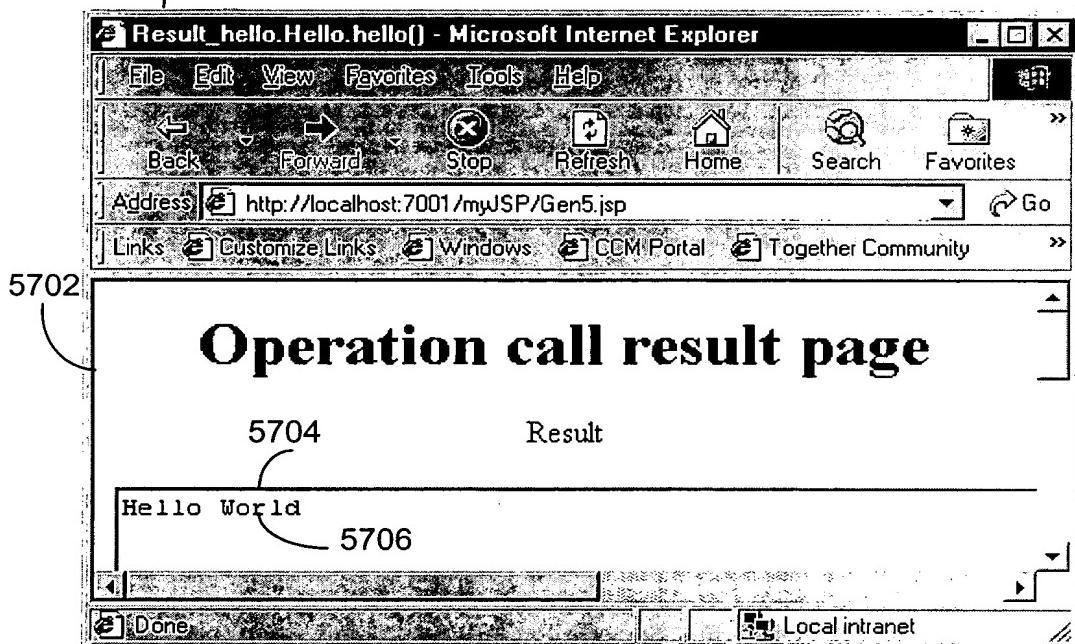


FIG. 58

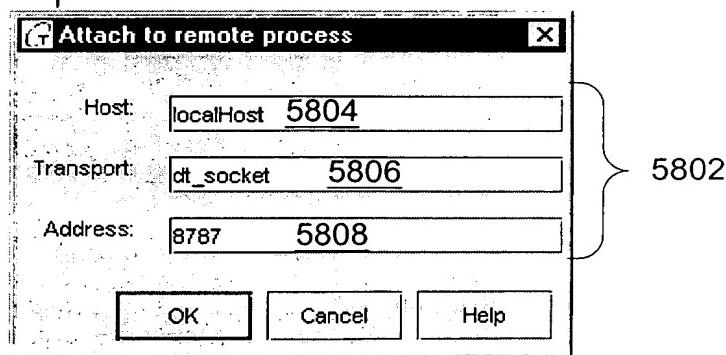


FIG. 59

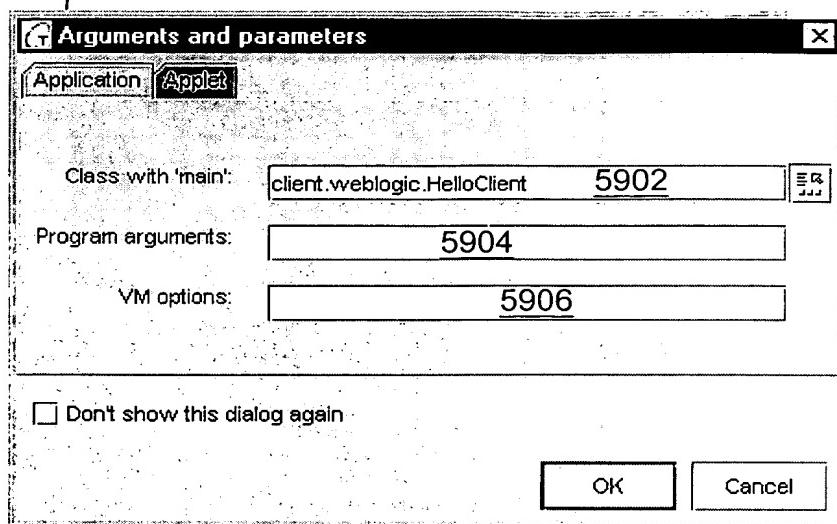


FIG. 60

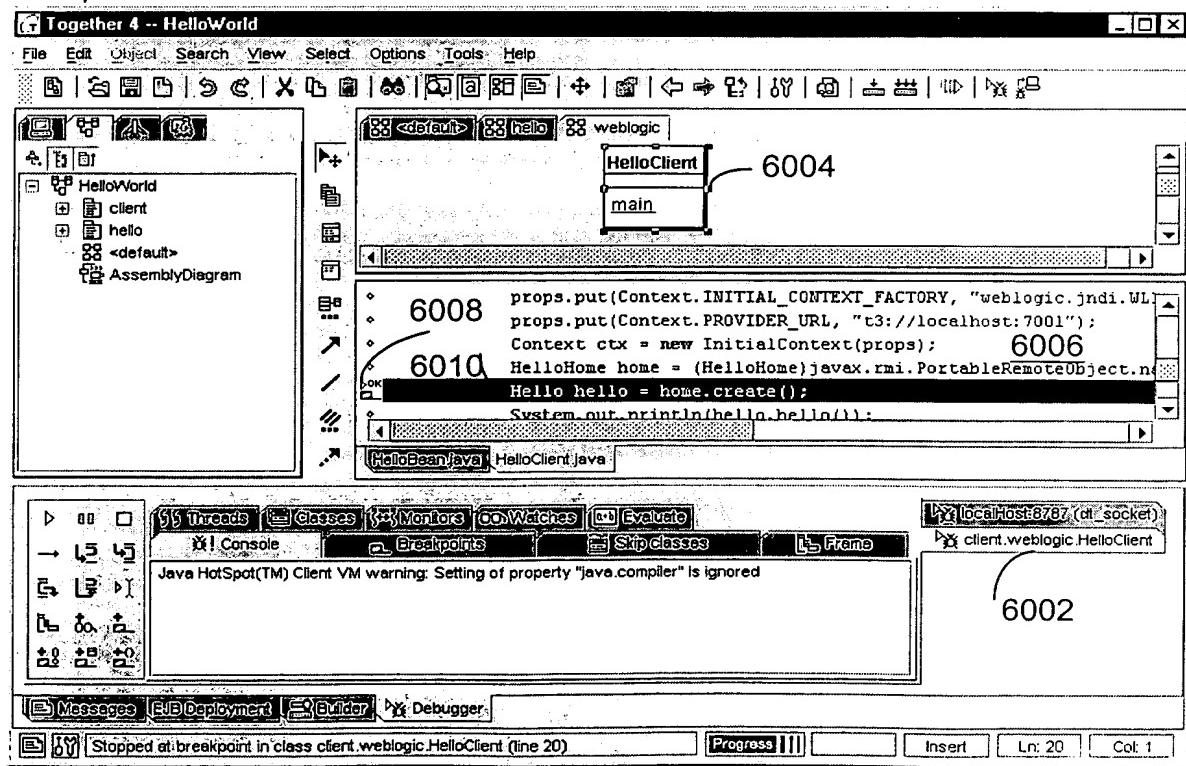


FIG. 61

